

**California Marine Life Protection Act Initiative
Master Plan Science Advisory Team
Draft Meeting Agenda
(revised November 9, 2009)**

Monday, November 9, 2009 at 9:00 AM

via teleconference* and online meeting

**Toll-free conference call
Dial-in number: 800.697.5978
Passcode: 8527564**

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Public Participation: Members of the public are invited to attend the meeting via conference call and webinar. Video and audio archives of the meeting may be accessed via the Internet approximately two days after the meeting. Please visit the Marine Life Protection Act (MLPA) website at http://www.dfg.ca.gov/mlpa/meetings_sc.asp for more information.

Public comment: The public will be invited to provide comment on the agenda items prior to the MLPA Master Plan Science Advisory Team (SAT) taking any action. Time allotted for public comment is determined by the chair. Note that the public comment is for comments specific to the SAT potential actions items; comments related to the MLPA Blue Ribbon Task Force, or other MLPA Initiative activities should be directed to the task force or MLPA staff.

Meeting materials will not be provided at the meeting but will be posted to the MLPA website as soon as they are available. This agenda may be found on the MLPA website at http://www.dfg.ca.gov/mlpa/meetings_sc.asp

Meeting Objectives

- *Potentially approve the methods used to evaluate marine protected area (MPA) proposals in the south coast study region*
- *Potentially approve the document describing the historical record of the MLPA Master Plan Science Advisory Team for the MLPA South Coast Study Region*
- *Review, discuss and potentially approve the scientific assessment of options being considered by the MLPA Blue Ribbon Task Force*

** This facility is accessible to persons with disabilities. To request reasonable accommodations for a disability, please contact California Relay Service (at least two days prior to the meeting) at 800.735.2929 (TT) or 800.735.2922 (voice) and ask them to contact the California Marine Life Protection Act Initiative at 916.653.5656.*

Meeting Agenda - November 9, 2009

Note: The SAT is expected to complete its work before lunch.

Welcome, Introductions and Review of Agenda

I. Updates

Update on the October 20-23, 2009 South Coast BRTF meeting

II. Marine Protected Area Science Guidelines and Evaluations

A. Review of SAT MPA Evaluation Methods Used in the South Coast Study Region

Potential SAT Action: Approve the methods used to evaluate MPA proposals in the south coast study region

BRIEFING DOCUMENT A.1: Draft Methods Used to evaluate MPA proposals in the MLPA south coast study region- Revised Oct 26, 2009

B. Scientific Assessment of MPA Options Being Considered by the MLPA Blue Ribbon Task Force

Steve Murray

Potential Action: Approve the scientific assessment of options being considered by the MLPA Blue Ribbon Task Force

BRIEFING DOCUMENT B.1: Scientific assessment of MPA options being considered by the MLPA BRTF PPT

III. South Coast SAT History

C. Historical Record of the SAT Process in the MLPA South Coast Study Region

Steve Murray

Potential Action: Approve the document describing historical record of the Marine Life Protection Act Master Plan Science Advisory Team for the South Coast Study Region

BRIEFING DOCUMENT C.1: Proceedings of the Science Advisory Team for the south coast study region- Revised Oct 26, 2009

Adjourn

California Marine Life Protection Act Initiative
Master Plan Science Advisory Team
Joint Meeting for the South Coast and North Coast Study Regions
Draft Meeting Agenda
(revised October 29, 2009)

Friday, October 30, 2009 at 8:30 AM

Red Lion Hotel Eureka
1929 Fourth Street
Eureka, CA 95501

Public Participation: Members of the public are invited to attend the meeting in person or may view and listen to the meeting via simultaneous webcasting on the Internet. Video and audio archives of the meeting may be accessed via the Internet approximately two days after the meeting. Please visit the Marine Life Protection Act (MLPA) website at http://www.dfg.ca.gov/mlpa/meetings_sc.asp for more information.

Public comment: The public will be invited to provide general comment on subjects related to the work of the MLPA Master Plan Science Advisory Team (SAT) **at approximately 12:35 p.m.** Speaker cards are requested and may be found at the entrance to the room. Time allotted for public comment is determined by the chair; submitting written comments that can be easily summarized in one to two minutes is encouraged. Note that the public comment period is for comments specific to the SAT; comments related to the MLPA Blue Ribbon Task Force, or other MLPA Initiative activities should be directed to the task force or MLPA staff.

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Meeting Objectives

- *Welcome SAT members for the MLPA North Coast Study Region*
- *Receive an introduction to the MLPA and the MLPA Initiative*
- *Review SAT charter and operating guidelines*
- *Receive an introduction to open meeting requirements*
- *Receive briefing on the science guidance in the California Marine Life Protection Act Master Plan for Marine Protected Areas*
- *Discuss bioregions for the MLPA North Coast Study Region*
- *Review levels of protection developed for the MLPA North Central Coast Study Region*
- *Form SAT work groups*
- *Select SAT chairs*

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Meeting Agenda - October 30, 2009

Note: The SAT will break for lunch at approximately 11:50 a.m. and public comment will be taken immediately after at approximately 12:35 p.m.

Welcome, Introductions and Review of Agenda

I. Updates

Update on the October 20-23, 2009 South Coast BRTF Meeting

II. Introduction to the MLPA and MLPA Initiative

A. Marine Life Protection Act Initiative Process and Participants

BRIEFING DOCUMENT A.1: MLPA process and participants PPT- Handout

B. Charter of the MLPA Master Plan Science Advisory Team for the North Coast

BRIEFING DOCUMENT B.1: Charter of the 2009-2011 MLPA Master Plan Science Advisory Team

BRIEFING DOCUMENT B.2: Sections from the Marine Life Protection Act Addressing Required MPA and MPA Network Features (from California Fish and Game Code, 2007)

C. Operating Principles for the North Coast MLPA Master Plan Science Advisory Team

BRIEFING DOCUMENT C.1: Operating principles for the MLPA Master Plan Science Advisory Team (Adopted June 26, 2007 and Amended September 9, 2008)

BRIEFING DOCUMENT C.2: Ex Parte Communication Disclosure Form

D. Bagley-Keene Open Meeting Act of 2004

BRIEFING DOCUMENT D.1: A Gandy Guide to the Bagley-Keene Open Meeting Act 2004

E. Science Guidance in the California Marine Life Protection Act Master Plan for Marine Protected Areas

BRIEFING DOCUMENT E.1: Guidance on MPA Network Design Taken from the Draft California Marine Life Protection Act Master Plan for Marine Protected Areas, Pages 34-46

BRIEFING DOCUMENT E.2: Overview of the science guidance in the California MLPA Master Plan for MPAs PPT – Handout Placeholder

III. Marine Protected Area Science Guidelines and Evaluation Criteria

F. Review of SAT MPA Evaluation Methods Used in the South Coast Study Region

Potential SAT Action: Approve the methods used to evaluate MPA proposals in the south coast study region

BRIEFING DOCUMENT F.1: Review of SAT MPA Evaluation Methods Used in the South Coast Study Region PPT

BRIEFING DOCUMENT F.2: Draft Methods Used to Evaluate Marine Protected Area Proposals in the MLPA South Coast Study Region (October 26, 2009 Draft)

G. Historical Record of the SAT Process in the MLPA South Coast Study Region

Steve Murray

Potential Action: Approve the document describing historical record of the Marine Life Protection Act Master Plan Science Advisory Team for the South Coast Study Region

BRIEFING DOCUMENT G.1: Proceedings of the Science Advisory Team for the MLPA South Coast Study Region (October 26, 2009)

H. Discussion of Bioregions for the North Coast

Pete Raimondi

BRIEFING DOCUMENT H.1: Introduction to Bioregions in the MLPA North Coast Study Region PPT

BRIEFING DOCUMENT H.2: Draft Summary of Information Supporting Bioregions in the MLPA North Coast Study Region (Revised October 18, 2009)

I. Discussion on Connectivity

Will White

BRIEFING DOCUMENT I.1: MPA Spacing Work Group Progress Report PPT

BRIEFING DOCUMENT I.2: MPA Spacing Work Group Progress Report: Spacing Guidelines and Other Metrics for Connectivity Among MPAs (October 27, 2009 Draft)

J. Levels of Protection Used in the MLPA North Central Coast Study Region

Larry Allen

BRIEFING DOCUMENT J.1: Overview of Levels of Protection Developed in the MLPA North Central Coast Study Region PPT

IV. SAT Operations

K. Form SAT Work Groups

L. Select SAT Chairs

Adjourn

California Marine Life Protection Act Initiative
Master Plan Science Advisory Team
Draft Meeting Agenda
(revised October 5, 2009)

Tuesday, October 6, 2009 at 9:30 AM

Radisson Hotel at Los Angeles Airport
6225 West Century Blvd.
Los Angeles, CA 90045

Public Participation: Members of the public are invited to attend the meeting in person or may view and listen to the meeting via simultaneous webcasting on the Internet. Video and audio archives of the meeting may be accessed via the Internet approximately two days after the meeting. Please visit the Marine Life Protection Act (MLPA) website at http://www.dfg.ca.gov/mlpa/meetings_sc.asp for more information.

Public Comment: The public will be invited to provide general comment on subjects related to the work of the MLPA Master Plan Science Advisory Team (SAT) **at approximately 1:15 p.m.** Speaker cards are requested and may be found at the entrance to the room. Time allotted for public comment is determined by the number of requests; submitting written comments that can be easily summarized is encouraged. Note that the public comment period is for comments specific to the SAT; comments related to the MLPA Blue Ribbon Task Force, MLPA South Coast Regional Stakeholder Group, or other MLPA Initiative activities should be directed to those bodies or MLPA staff.

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Meeting Objectives

- *Review and potentially adopt SAT marine protected area (MPA) evaluation methods for the MLPA South Coast Study Region*
- *Review, discuss and potentially approve newly proposed levels of protection (LOPs)*
- *Review and potentially adopt SAT evaluations of the MLPA South Coast Regional Stakeholder Group (SCRSG) final MPA proposals*
- *Thank members of the MLPA Master Plan Science Advisory Team for the MLPA South Coast Study Region for their service to the people of California*

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Meeting Agenda - October 6, 2009

Note: The SAT will break for lunch at approximately 12:15 p.m. and public comment will be taken immediately after lunch at approximately 1:15 p.m.

Welcome, Introductions and Review of Agenda

I. Updates

A. External Data Submissions

BRIEFING DOCUMENT A.1: External data submitted to the MLPA Master Plan Science Advisory Team (Updated September 17, 2009)

B. Revised Palos Verdes Water Quality Document

BRIEFING DOCUMENT B.1: Draft Recommendations for Evaluating Water and Sediment Quality Along the Palos Verdes Shelf (Revised August 31, 2009)

II. MPA Design Guidelines and Evaluation Methods for the MLPA South Coast Study Region

C. Review and Discuss Text Associated with the Levels of Protection (LOPs) Approved at the June 18, 2009 SAT Meeting and Newly Proposed LOPs

Larry Allen

Potential SAT Action: Approve the text associated with the levels of protection approved at the June 18, 2009 SAT meeting

Potential SAT Action: Approve newly proposed levels of protection

BRIEFING DOCUMENT C.1: Evaluation Methods for the MLPA South Coast Study Region: Updates to Chapter 3 - Protection Levels (Draft revised September 25, 2009)

D. SAT Response to Science Question Received at the August 3, 2009 Meeting of the MLPA South Coast Regional Stakeholder Group

Pete Raimondi

Potential SAT Action: Approve the draft SAT response to science question received at the August 3, 2009 meeting of the MLPA South Coast Regional Stakeholder Group

BRIEFING DOCUMENT D.1: Draft SAT Response to Science Question Received at the August 3, 2009 Meeting of the MLPA South Coast Regional Stakeholder Group- revised September 3, 2009

E. SAT Evaluation Methods for the MLPA South Coast Study Region

BRIEFING DOCUMENT E.1: Updates to Chapters 4-5 on Habitat Representation and Habitat Replication (Revised September 25, 2009)

BRIEFING DOCUMENT E.2: Updates to Chapter 8 and Appendix B - Bioeconomic Models (Revised September 25, 2009)

III. Evaluations of SCRSG Final MPA Proposals

F. Overview of Round 3 SCRSG MPA Proposals

BRIEFING DOCUMENT F.1: Description of Proposal 0 (Existing MPAs) and Round 3 SCRSG MPA Proposals, with Draft Levels of Protection (revised September 22, 2009)

BRIEFING DOCUMENT F.2: Overview Maps of Proposal 0 (Existing MPAs) and Round 3 SCRSG MPA Proposals (September 29, 2009)

BRIEFING DOCUMENT F.3: Overview of Round 3 SCRSG MPA Proposals PPT

- G. Review and Discuss the Habitat Representation and Habitat Replication Evaluation Results
Mark Carr
Potential SAT Action: *Approve the habitat representation and habitat replication evaluation results and presentation*
BRIEFING DOCUMENT G.1: Draft Habitat Evaluations of the Round 3 SCRSG MPA Proposals for the MLPA South Coast Study Region PPT
- H. Review and Discuss the MPA Size and MPA Spacing Evaluation Results
Steve Gaines
Potential SAT Action: *Approve the MPA size and MPA spacing evaluation results and presentation*
BRIEFING DOCUMENT H.1: Draft Size and Spacing Evaluations of the Round 3 SCRSG MPA Proposals for the MLPA South Coast Study Region PPT
- I. Review and Discuss the Marine Birds and Marine Mammals Evaluation Results
Susan Chivers and Dan Robinette
Potential SAT Action: *Approve the marine birds and mammals evaluation results and presentation*
BRIEFING DOCUMENT I.1: Draft Evaluation of Benefits to Marine Mammals from Round 3 SCRSG MPA Proposals (revised September 30, 2009)
BRIEFING DOCUMENT I.2: Draft Evaluation of Benefits to Marine Birds from SCRSG MPA Proposals in the MLPA South Coast Study Region - October 5, 2009
BRIEFING DOCUMENT I.3: Marine Birds and Mammals Evaluation of SCRSG MPA Proposals for the MLPA South Coast Study Region PPT
- J. Review and Discuss the Bioeconomic Model Evaluation Results
Chris Costello
Potential SAT Action: *Approve the bioeconomic model evaluation results and presentation*
BRIEFING DOCUMENT J.1: Draft Bioeconomic Model Evaluation Results for the Round 3 SCRSG MPA Proposals PPT
BRIEFING DOCUMENT J.2: Round 3 Bioeconomic Model Evaluation Results for SCRSG MPA Proposals for the MLPA South Coast Study Region
- K. Review and Discuss the Potential Commercial and Recreational Fishery Impacts Evaluation Results
Astrid Scholz
Potential SAT Action: *Approve the commercial and recreational fishing evaluation results and presentation*
BRIEFING DOCUMENT K.1: Draft Potential Commercial and Recreational Fishing Evaluation Results for Round 3 SCRSG MPA Proposals PPT
BRIEFING DOCUMENT K.2: Draft Potential Commercial and Recreational Fishing Evaluation Results Summary (October 2, 2009)
- L. Review and Discuss the Water Quality Evaluation Results
Dominic Gregorio
Potential SAT Action: *Approve the water quality evaluation results and presentation*
BRIEFING DOCUMENT L.1: Draft Summary of SAT Evaluation of Round 3 SCRSG MPA Proposals: Water and Sediment Quality (Draft revised September 28, 2009)
BRIEFING DOCUMENT L.2: Draft Water Quality Evaluations of Round 3 SCRSG MPA Proposals PPT

IV. Adaptive Management

- M. SAT Feedback on Adaptive Management

Mark Carr

Potential SAT Action: Approve SAT feedback on adaptive management in Round 3 SCRSG MPA proposals

V. Other MPA Design and Evaluation Criteria

- N. Discussion on Other MPA Design and Evaluation Criteria

Steve Murray

Wrap-Up and Next Steps

Adjourn

California Marine Life Protection Act Initiative
Master Plan Science Advisory Team
Draft Meeting Agenda
(revised June 18, 2009)

Thursday, June 18, 2009 at 9:30 AM

Embassy Suites Hotel North*
9801 Airport Boulevard
Los Angeles, CA 90054

Public Participation: Members of the public are invited to attend the meeting in person or may view and listen to the meeting via simultaneous webcasting on the Internet. Video and audio archives of the meeting may be accessed via the Internet approximately two days after the meeting. Please visit the Marine Life Protection Act (MLPA) website at http://www.dfg.ca.gov/mlpa/meetings_sc.asp for more information.

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Meeting Objectives

- *Review, discuss and potentially approve level of protection (LOPs) designations*
- *Review, discuss and potentially approve the SAT evaluations of MLPA South Coast Regional Stakeholder Group (SCRSG) draft marine protected area (MPA) proposals and revised external MPA proposals*
- *Review and potentially approve additions to the water quality guidance document*

Meeting Agenda - June 18, 2009

Note: The SAT will break for lunch at approximately 12:00 p.m. and public comment will be taken immediately after at approximately 1:00 p.m.

Welcome, Introductions and Review of Agenda

I. Updates

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A. Update on BRTF Guidance to the SCRSG Regarding Pending Military Closures and Military Use Areas in the MLPA South Coast Study Region

BRIEFING DOCUMENT A.1: Actions of the MLPA Blue Ribbon Task Force Taken on May 19, 2009 (May 19, 2009)

B. Update from the SAT MPA Spacing Guidelines Work Group

C. Update on the Revised Evaluation Methods Document

BRIEFING DOCUMENT C.1: Draft Methods Used to Evaluate Marine Protected Area Proposals for the MLPA South Coast Study Region (Revised June 16, 2009)

D. Update on Tracking External Data Submissions

BRIEFING DOCUMENT D.1: External Data Submitted to the Master Plan Science Advisory Team (Updated June 16, 2009)

II. Levels of Protection

E. Review and Discuss Text Associated with the Levels of Protection (LOPs) Approved at the April 1, 2009 SAT Meeting and Newly Proposed LOP

Larry Allen

Potential SAT Action: Approve the text associated with the levels of protection approved at the April 1, 2009 SAT meeting

Potential SAT Action: Approve newly proposed level of protection

BRIEFING DOCUMENT E.1: Draft Supporting Text for Levels of Protection Approved on April 1, 2009 (revised June 16, 2009)

BRIEFING DOCUMENT E.2: Proposed Level of Protection for Ghost Shrimp in the MLPA South Coast Study Region (June 16, 2009)

III. Evaluations of SCRSG Draft MPA Proposals and Revised External MPA Proposals

F. Overview of MPA Proposal 0, Draft SCRSG MPA Proposals and Revised External MPA Proposals

BRIEFING DOCUMENT F.1: Overview of Round 2 Draft MPA Proposals and Revised External Proposals - PPT

BRIEFING DOCUMENT F.2: Overview Maps of the Existing, External and SCRSG MPA Proposals (revised May 28, 2009)

BRIEFING DOCUMENT F.3: Description of Existing, External, and SCRSG MPA Proposals with Draft Levels of Protection (revised June 10, 2009)

G. Review and Discuss the Habitat Representation and Habitat Replication Evaluation Results

Mark Carr

Potential SAT Action: Approve the habitat representation and habitat replication evaluation results and presentation

BRIEFING DOCUMENT G.1: Draft Summary of Habitat and Size and Spacing Evaluations of the Round 2 MPA Proposals for the MLPA South Coast Study Region (June 17, 2009)

BRIEFING DOCUMENT G.2: Draft Habitat Evaluations of the Round 2 MPA Proposals for the MLPA South Coast Study Region PPT

H. Review and Discuss the MPA Size and MPA Spacing Evaluation Results

Steve Gaines

Potential SAT Action: Approve the MPA size and spacing evaluation results and presentation

BRIEFING DOCUMENT H.1: Draft Size and Spacing Evaluations of the Round 2 MPA Proposals for the MLPA South Coast Study Region PPT - Placeholder

I. Review and Discuss the Marine Birds and Marine Mammals Evaluation Results

Susan Chivers and Dan Robinette

Potential SAT Action: *Approve the marine birds and mammals evaluation results and presentation*

BRIEFING DOCUMENT I.1: Marine Birds and Mammals Evaluation for the MLPA South Coast Study Region PPT- June 16, 2009

BRIEFING DOCUMENT I.2: Draft Evaluation of Benefits to Marine Mammals from Proposed MPAs in the MLPA South Coast Study Region (June 17, 2009)

BRIEFING DOCUMENT I.3: Draft Evaluation of Benefits to Marine Birds from Proposed MPAs and Special Closures in the South Coast Study Region (June 12, 2009)

J. Review and Discuss the Bioeconomic Models Evaluation Results

Chris Costello

Potential SAT Action: *Approve the bioeconomic models evaluation results and presentation*

BRIEFING DOCUMENT J.1: Draft Bioeconomic Models Evaluation Results PPT

BRIEFING DOCUMENT J.2: Draft Round 2 Bioeconomic Models Evaluation Results (June 18, 2009)

K. Review and Discuss the Potential Commercial and Recreational Fishing Impacts Evaluation Results

Astrid Scholz

Potential SAT Action: *Approve the commercial and recreational fishing evaluation results and presentation*

BRIEFING DOCUMENT K.1: Draft Commercial and Recreational Fishing Evaluation Results PPT

BRIEFING DOCUMENT K.2: Draft Commercial and Recreational Fishing Evaluation Results

L. Review and Discuss the Water Quality Evaluation Results

Dominic Gregorio

Potential SAT Action: *Approve the water quality evaluation results and presentation*

BRIEFING DOCUMENT L.1: Draft Summary of Water and Sediment Quality Evaluation of Round 2 MPA Proposals (June 16, 2009)

BRIEFING DOCUMENT L.2: Draft Water Quality Evaluation of Round 2 MPA Proposals PPT

IV. Water Quality

M. Review and Discuss Information on the Whites Point Superfund site and Portuguese Bend landslide

Dominic Gregorio

Potential SAT Action: *Approve the information on the Whites Point superfund site and Portuguese Bend landslide addendum to the water quality guidance document*

BRIEFING DOCUMENT M.1: Draft Recommendations for Evaluating Water and Sediment Quality Along the Palos Verdes Shelf – Supplemental Guidance to Recommendations for Considering Water Quality and MPAs (June 16, 2009)

BRIEFING DOCUMENT M.2: Evaluating Water Quality Along the Palos Verdes Shelf PPT

Wrap-Up and Next Steps

Adjourn

California Marine Life Protection Act Initiative
Master Plan Science Advisory Team
Draft Meeting Agenda
(revised May 15, 2009)

Friday, May 15, 2009 at 2:30 PM

via teleconference* and online meeting

Toll-free conference call

Dial-in number: 800.697.5978

Passcode: 8527564

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Public Participation: Members of the public are invited to participate in the meeting using the toll-free phone number and to watch presentations via the GoToMeeting webinar, or may join MLPA staff at a local office by making prior arrangements with Office Manager Amy Padilla (916.654.1885 or Amy.Padilla@resources.ca.gov). In addition, the meeting is being simultaneously webcast for viewing only; see the MLPA website (http://www.dfg.ca.gov/mlpa/meetings_sc.asp) for more information.

Public Comment: The public will be invited by the co-chairs to offer comments on the agenda action item. General comments on the work of the MLPA Master Plan Science Advisory Team (SAT), ***not directed to the specific agenda action item, will be taken at approximately 2:40 p.m.*** Note that the general comment period is for public comment specific to the SAT; comments related to the regional stakeholder group, MLPA Blue Ribbon Task Force or other MLPA Initiative activities should be directed to those bodies or MLPA staff.

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Meeting Objectives

- *Discuss and potentially approve the draft evaluation of ecological contributions of pending military closures and proposed MPAs at San Nicolas Island, Begg Rock and San Clemente Island*
- *Discuss and potentially approve the draft MLPA Master Plan Science Advisory Team (SAT) analysis of military activities*

Meeting Agenda

Note: *Public comment will be taken at approximately 2:40 p.m.*

Welcome, Introductions and Review of Agenda

I. Updates

II. BRTF Request for Scientific Information and Guidance

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A. Review and Discuss the Ecological Contributions of Pending Military Closures and Proposed MPAs at San Nicolas Island, Begg Rock and San Clemente Island

Steve Murray

Potential SAT Action: *Approve the evaluation of the ecological contributions of pending military closures and proposed MPAs at San Nicolas Island, Begg Rock and San Clemente Island document and presentation*

BRIEFING DOCUMENT A.1: Draft Evaluation of Ecological Contributions of Pending Military Closures and Proposed MPAs at San Nicolas Island, Begg Rock and San Clemente Island (Revised May 14, 2009)

BRIEFING DOCUMENT A.2: Draft Evaluation of Ecological Contributions of Pending Military Closures PPT

B. Review and Discuss the Analysis of Military Activities in the MLPA South Coast Study Region

Dan Robinette

Potential SAT Action: *Approve the analysis of military activities in the MLPA South Coast Study Region document and presentation*

BRIEFING DOCUMENT B.1: Draft Analysis of Military Activities in the MLPA South Coast Study Region PPT

BRIEFING DOCUMENT B.2: Draft Analysis of Potential Impacts of Military Activities in Military Use Areas in the MLPA South Coast Study Region (Revised May 14, 2009)

BRIEFING DOCUMENT B.3: Draft Military Activities Matrix (May 14, 2009)

Adjourn

California Marine Life Protection Act Initiative
Master Plan Science Advisory Team
Draft Meeting Agenda
(revised May 5, 2009)

Tuesday, May 5, 2009
9:30 a.m.

via teleconference and online meeting

Toll-free conference call
Dial-in number: 800.697.5978
Passcode: 8527564

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Make your reservation now at
<https://www1.gotomeeting.com/register/411343984>

For public onsite teleconference and webinar access:

Resources Building *
1416 Ninth Street, Room 1320
Sacramento, CA 95814

California Department of Fish and Game *
4665 Lampson Avenue, Suite C
Los Alamitos, CA 90720

Southwest Fisheries Science Center *
3333 North Torrey Pines Court, Room 380
La Jolla, CA 92037-1022

UCSB Marine Science Institute
Marine Science Research Building*, Room 4318
Santa Barbara, CA 93106-6150

Public Participation: Members of the public are invited to participate in the meeting using the toll-free phone number and to watch presentations via the GoToMeeting webinar, or may join staff at one of the offices listed above. In addition, the meeting is being simultaneously webcast for viewing only; see the MLPA website (http://www.dfg.ca.gov/mlpa/meetings_sc.asp) for more information.

Public parking is available at no charge at the above locations except for the *Marine Science Research Building and the Resources Building*.

- (1) The Marine Science Research Building is most easily accessed via bus from downtown Santa Barbara or Goleta by taking the UCSB express; directions and bus stop times are available at http://www.sbmtd.gov/Lines/Line_24x.htm. Alternatively, UCSB campus visitor parking passes can be requested by contacting Satie Airame at airame@msi.ucsb.edu.
- (2) The Resources Building is most easily accessed via the Light Rail Blue and Gold lines (<http://www.sacrt.com/systemmap/central.stm>). Parking in downtown Sacramento is via a city garage or metered street parking; members of the public can be reimbursed by staff at the building for any parking fees.

Public Comment: The public will be invited by the co-chairs to offer comments on agenda action items. General comments on the work of the MLPA Master Plan Science Advisory Team (SAT), **not directed to specific agenda items, will be taken after lunch at approximately 1:00 p.m.** Note that the general comment period is for public comment specific to the SAT; comments related to the regional stakeholder group, Blue Ribbon Task Force or other MLPA Initiative activities should be directed to those bodies or MLPA staff.

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Meeting Objectives

- Receive briefing on requests made at the April 15-16, 2009 Blue Ribbon Task Force (BRTF) meeting
- Discuss and potentially approve the revised marine birds evaluation methods
- Discuss and potentially approve the revised water quality evaluation methods and guidance
- Discuss and potentially approve the approach for addressing habitat data gaps
- Discuss and potentially approve the wetlands restoration activities and artificial reef background information documents
- Discuss and potentially approve the MLPA Master Plan Science Advisory Team (SAT) analysis of military activities
- Discuss and potentially approve the draft response to the MLPA Blue Ribbon Task Force's request for a description of the SAT's use of fisheries information
- Discuss and potentially approve the proposed concepts for designing MPA networks for adaptive management document

Meeting Agenda

Note: The SAT will break for lunch at approximately 12:15 p.m. and public comment will be taken following lunch at approximately 1:00 p.m.

Welcome, Introductions and Review of Agenda

I. Updates

A. Update on the Revised Evaluation Methods Document

Briefing Document A.1: Draft Methods Used to Evaluate Marine Protected Area Proposals in the MLPA South Coast Study Region (April 23, 2009 Draft)

Briefing Document A.2: Recommendations for Considering Water Quality and Marine Protected Areas in the MLPA South Coast Study Region (Revised April 30, 2009)

B. Briefing on Requests Made at the April 15-16, 2009 BRTF Meeting

Steve Murray

II. MPA Design Guidelines and Evaluation Methods for the MLPA South Coast Study Region

C. Review and Discuss the Revised Marine Birds and Mammals Evaluation Methods

Dan Robinette

Potential SAT Action: *Approve the revised marine birds and mammals evaluation methods*

Briefing Document C.1: Evaluation Methods Chapter 9 - Protection of Marine Birds and Mammals (Revised April 27, 2009)

Briefing Document C.2: Marine Birds and Mammals Evaluation Update PPT - Handout

D. Review and Discuss the Revised Habitat Data Layer and Approach to Habitat Data Gaps

Potential SAT Action: *Approve the consideration of habitat data and approach to habitat data gaps*

Briefing Document D.1: Update on Habitat Data for the MLPA South Coast Study Region PPT - Handout

E. Review and Discuss the Revised Water Quality Evaluation Methods

Dominic Gregorio

Potential SAT Action: *Approve the revised water quality evaluation methods and guidance document*

Briefing Document E.1: Evaluation Methods Chapter 10 - Water and Sediment Quality (Revised May 1, 2009)

Briefing Document E.2: Water Quality Evaluations of the External MPA Proposals and the RSG MPA Arrays PPT – Handout

F. Update from the Modeling Work Group

Chris Costello

G. Update on Levels of Protection

Briefing Document G.1: Update on Levels of Protection for the MLPA South Coast Study Region PPT - Handout

III. Habitat Restoration Activities and Artificial Structures in the MLPA South Coast Study Region

H. Review and Discuss Wetland Restoration Activities in the South Coast Study Region

Potential SAT Action: *Approve the background information on wetland restoration activities document*

Briefing Document H.1: Draft Background Information on Wetland Restoration Activities in the South Coast Study Region (Revised April 28, 2009)

Briefing Document H.2: Draft Guidance on Wetlands and Eelgrass Restoration PPT - Handout

I. Review and Discuss Artificial Structures in the South Coast Study Region

Pete Raimondi

Potential SAT Action: *Approve the background information on artificial structures in the south coast study region document*

Briefing Document I.1: Draft Background Information on Artificial Structures in the South Coast Study Region (Revised May 5, 2009)

Briefing Document I.2: Information on Artificial Structures in the South Coast Study Region PPT - Handout

IV. BRTF Request for Scientific Information and Guidance

J. Review and Discuss the Analysis of Military Use Areas in the MLPA South Coast Study Region

Steve Murray

Potential SAT Action: *Approve the analysis of military activities in the south coast study region document*

Briefing Document J.1: Draft Approach for an Analysis of Military Activities PPT

Briefing Document J.2: Draft Analysis of Military Use Areas in the MLPA South Coast Study Region PPT - Handout

K. Fisheries Management and the MLPA

Potential SAT Action: *Approve the draft response to the MLPA Blue Ribbon Task Force's request for a description of the SATs use of fisheries information*

Briefing Document K.1: Consideration of Stock Status and Fisheries in Science Guidance and Evaluation of MPA Proposals (May 4, 2009)

V. Newly Proposed Concepts for MPA Design Guidelines

L. Review and Discuss MPA Spacing Guidelines

Ray Hilborn

Briefing Document L.1: Suggestions for Modifying the SAT Spacing Analysis PPT

M. Review and Discuss Proposed Concepts for Designing MPA Networks for Adaptive Management

Mark Carr

Potential SAT Action: *Approve the proposed concepts for designing MPA networks for adaptive management document*

Briefing Document M.1: Proposed Concepts for Designing MPA Networks for Adaptive Management (Revised April 28, 2009)

Wrap Up and Next Steps

Adjourn

**California Marine Life Protection Act Initiative
Master Plan Science Advisory Team
Draft Meeting Agenda
(revised April 6, 2009)**

**Wednesday, April 1, 2009
9:30 AM**

**Embassy Suites Hotel North*
9801 Airport Boulevard
Los Angeles, CA 90254**

AND

**Monday, April 6, 2009
1:30 PM**

Via teleconference and online meeting (webinar)

**Toll-free conference call
Dial-in number: 800.697.5978
Passcode: 8527564**

**Presentations via GoToMeeting
Make your reservation now at
<https://www1.gotomeeting.com/register/686253834>**

Public teleconference and webinar access for Monday April 6 is also available at:

**Resources Building*
1416 Ninth Street, Room 1320
Sacramento, CA 95814**

**Southwest Fisheries Science Center*
3333 North Torrey Pines Court, Room 300
La Jolla, CA 92037-1022**

**California Department of Fish and Game*
4665 Lampson Avenue, Suite C
Los Alamitos, CA 90720**

**UCSB Marine Science Institute Marine
Science Research Building*
2nd Floor Conference, Room 2318
Santa Barbara, CA 93106-6150**

Public parking is available at no charge at the above locations except for the *Marine Science Research Building and the Resources Building*.

- (1) The Marine Science Research Building is most easily accessed via bus from downtown Santa Barbara or Goleta by taking the UCSB express; directions and bus stop times are available at http://www.sbmtd.gov/Lines/Line_24x.htm. Alternatively, UCSB campus visitor parking passes can be requested by contacting Satie Airame at airame@msi.ucsb.edu.
- (2) The Resources Building is most easily accessed via the Light Rail Blue and Gold lines (<http://www.sacrt.com/systemmap/central.stm>). Parking in downtown Sacramento is via a city garage or metered street parking; members of the public can be reimbursed by staff at the building for any parking fees.

Public participation: On Wednesday April 1, members of the public are invited to attend the meeting in person or may view and listen to the meeting only via simultaneous webcasting on the Internet (see the MLPA website (www.dfg.ca.gov/mlpa/meetings_sc.asp) for more information about simultaneous webcasting). On Monday, April 6, members of the public are invited to attend the meeting and provide comment using the toll-free phone number and to watch presentations via the webinar link, or may use the MLPA offices listed above to listen, watch and provide comment. ***It is important that members of***

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the public attending the meeting via conference call clearly state their first and last name when prompted by the operator to ensure that you are able to provide comments. Both portions of the meeting may be viewed in an archived version approximately two days after the meeting.

Public comment: The public will be invited by the co-chairs to offer comments on agenda action items. General comments on the work of the MLPA Master Plan Science Advisory Team (SAT), not directed to specific agenda items, ***will be taken after lunch at approximately 1:00 p.m. on Wednesday, April 1, 2009 and, if the meeting is continued, at approximately 3:15 p.m. on Monday, April 6, 2009.*** Note that the general comment period is for comments specific to the MLPA SAT; comments related to the regional stakeholder group, task force or other MLPA Initiative activities should be directed to those bodies or MLPA staff. Meeting materials will not be provided at the meeting but will be posted to the MLPA website as soon as they are available. This agenda may be found on the MLPA website at http://www.dfg.ca.gov/mlpa/meetings_sc.asp.

Meeting Objectives

- *Discuss and potentially approve the MLPA Master Plan Science Advisory Team (SAT) response to the MLPA Blue Ribbon Task Force (BRTF) request regarding U.S. Department of Defense "military use areas"*
- *Review, discuss and potentially approve level of protection designations*
- *Review, discuss and potentially approve the SAT evaluations of MLPA South Coast Regional Stakeholder Group (SCRSG) draft MPA arrays and draft external marine protected area (MPA) proposals*
- *Review, discuss and potentially approve the water quality evaluation methods for MPA proposals in the MLPA South Coast Study Region*
- *Review and discuss draft document regarding beach manipulation activities in the MLPA South Coast Study Region*
- *Review and potentially approve SAT responses to questions from the MLPA SCRSG*
- *Review and potentially approve commercial and recreational fishing chapter of the south coast evaluation methods document*

Meeting Agenda - Wednesday, April 1, 2009

Note: The SAT will break for lunch at approximately 12:15 p.m. Public comment will be taken immediately following lunch at approximately 1:00 p.m.

Welcome, Introductions, and Review of Agenda

Updates

A. Update on the Revised Evaluation Methods Document

Potential SAT Action: Approve the commercial and recreational fishing evaluation methods chapter of the south coast evaluation methods document

Briefing Document A.1: Revised Bioeconomic Model Chapter of the Evaluation Methods Document (Revised March 18, 2009)

Briefing Document A.2: Commercial and Recreational Fishing Evaluation Methods Chapter (Revised March 26, 2009)

I. BRTF Request Regarding Military Use Areas in the MLPA South Coast Study Region

B. Review and Discuss the Revised Response to the BRTF Regarding the Ecology of Military Use Areas

Steve Murray

Potential SAT Action: Approve the Revised Response to the BRTF Regarding the Ecology of Military Use Areas

Briefing Document B.1: Draft Analysis of Military Use Areas in the MLPA South Coast Study Region (Revised March 27, 2009) – Handout

C. Update and Discussion on the BRTF Guidance on How to Incorporate/Evaluate Military Use Areas and Pending Closures in SCRSG Draft MPA Arrays and Draft External Proposals

Briefing Document C.1: Summary of MLPA Blue Ribbon Task Force Interim Guidance with Regard to Military Use Areas and Pending Military Closures

Briefing Document C.2: Update on Military Use Areas and Pending Military Closures PPT – Handout

Briefing Document C.3: Summary of Selected Military Activities Occurring at San Clemente and San Nicolas Islands (March 31, 2009; includes map) – Handout

II. Levels of Protection

D. Review and Discuss Text Associated with the Levels of Protection Approved at the February 24, 2009 SAT Meeting

Mark Carr

Potential SAT Action: Approve text associated with levels of protection (LOPs) approved at the February 24, 2009 SAT meeting

Briefing Document D.1: Update to Levels of Protection as Approved at the February 24, 2009 SAT Meeting (Revised March 23, 2009)

E. Review and Discuss Additional Levels of Protection Designations

Ray Hilborn

Potential SAT Action: Approve additional LOP designations

Briefing Document E.1: Additional Levels of Protection Designations for the MLPA South Coast Study Region PPT – Handout

Briefing Document E.2: Draft Level of Protection Decision Matrix for the MLPA South Coast Project (March 31, 2009 Draft) – Handout

III. Evaluations of Draft MPA Arrays and Draft External MPA Proposals

F. Overview of Draft SCRSG MPA Arrays, Draft External MPA Proposals, and Existing MPAs

Briefing Document F.1: Overview Maps of Existing MPAs, Draft SCRSG MPA Arrays and Draft External MPA Proposals

Briefing Document F.2: Descriptions of Existing MPAs, SCRSG Draft Arrays and Draft External Proposals with Draft Levels of Protection

G. Review and Discuss the Marine Birds and Mammals Evaluation Results

Dan Robinette and Susan Chivers

Potential SAT Action: Approve the marine birds and mammals evaluations results and PowerPoint presentations

Briefing Document G.1: Marine Birds Evaluation Results PPT

Briefing Document G.2: Marine Mammals Evaluation Results PPT – Handout Placeholder

H. Update on Habitat Data Layers Used in MPA Evaluations for the MLPA South Coast Study Region

Briefing Document H.1: Update on Habitat Data Layers Used in MPA Array/Proposal Evaluations PPT – Handout

I. Review and Discuss the Habitat Representation and Replication Evaluation Results

Mark Carr

Potential SAT Action: Approve the habitat representation and replication evaluation results and PowerPoint presentation

Briefing Document I.1: Draft Habitat Evaluations of the Round 1 Draft MPA Arrays/Proposals for the MLPA South Coast Study Region PPT – Handout

J. Review and Discuss the MPA Size and Spacing Evaluation Results

Larry Allen

Potential SAT Action: Approve the MPA size and spacing evaluation results and PowerPoint presentation

Briefing Document J.1: Draft Size and Spacing Evaluations of the Round 1 Draft MPA Array/Proposals for the MLPa South Coast Study Region PPT – Handout

K. Review and Discuss the Spatial Bioeconomic Modeling Evaluation Results

Chris Costello

Potential SAT Action: Approve the bioeconomic modeling evaluation results and PowerPoint presentation

Briefing Document K.1: Spacial Bioeconomic Model Evaluations of Round 1 Draft MPA Arrays/Proposals PPT

L. Review and Discuss the Commercial and Recreational Fishing Evaluation Results

Astrid Scholz

Potential SAT Action: Approve the commercial and recreational fishing evaluation results and PowerPoint presentation

Briefing Document L.1: Commercial and Recreational Fishing Evaluation Results PPT – Handout Placeholder

IV. Water Quality Evaluation Methods

M. Review and Discuss Proposed Water Quality Evaluations Methods and Draft Results

Dominic Gregorio

Potential SAT Action: Approve the proposed water quality evaluation methods

Briefing Document M.1: Proposed Water Quality Evaluation Methods for the MLPA South Coast Study Region PPT – Handout

Briefing Document M.2: Methods Used to Evaluate Marine Protected Area Proposals in the MLPA South Coast Study Region, Chapter 10–Water and Sediment Quality (Revised March 26, 2009)

Briefing Document M.3: Subregional Maps for Areas of Water Quality Concern and Opportunities (Revised February 27, 2009)

V. MPAs and Adaptive Management

N. Proposed Concepts for Designing a Network of MPAs for Adaptive Management

Potential SAT Action: Approve concepts for designing a network of MPAs for adaptive management

Briefing Document N.1: Concepts for Designing MPA Networks for Adaptive Management (Revised February 25, 2009)

Briefing Document N.2: Additional Information to Support Discussion of Concepts for Designing MPA Networks for Adaptive Management PPT

VI. Beach Manipulation and Habitat Restoration Activities

O. Review and Discuss the Beach Manipulation Activities Document

Potential SAT Action: Approve the beach manipulation activities document

Briefing Document O.1: Draft Background Information on Beach Manipulation Activities in the MLPA South Coast Study Region (Revised March 20, 2009)

Briefing Document O.2: Beach Manipulation Activities in the MLPA South Coast Study Region PPT - Handout P. Review and Discuss Wetland Restoration Activities Background Document

Pete Raimondi

Briefing Document P.1: Draft Background Information on Wetland Restoration Activities in the South Coast Study Region (Revised March 26, 2009)

VII. Science Questions

Q. Review and Discuss SAT Responses to Questions Received at SCRSG Meetings

Potential SAT Action: Approve response to science question #3 received at the January 13-14, 2009 meeting of the SCRSG

Briefing Document Q.1: Science Questions Received at the January 13-14, 2009 Meeting of the SCRSG (Revised March 19, 2009)

Wrap Up and Next Steps

Recess

Meeting Agenda – Monday, April 6, 2009

Note: The SAT will take a break at approximately 3:00 p.m.; public comment will be taken immediately following the break at approximately 3:15 p.m.

These agenda items and actions were not completed on Wednesday, April 1, 2009 and will be taken up on the second day of the meeting, Monday, April 6:

I. BRTF Request Regarding Military Use Areas in the MLPA South Coast Study Region

B. Review and Discuss the Revised Response to the BRTF Regarding the Ecology of Military Use Areas

Potential SAT Action: Approve the Revised Response to the BRTF Regarding the Ecology of Military Use Areas

C. Update and Discussion on the BRTF Interim Guidance on How to Incorporate/Evaluate Military Use Areas and Pending Closures in SCRSG Draft MPA Arrays and Draft External Proposals

II. Levels of Protection

D. Review and Discuss Text Associated with the Levels of Protection Approved at the February 24, 2009 SAT Meeting

Potential SAT Action: Approve text associated with levels of protection (LOPs) approved at the February 24, 2009 SAT meeting

III. Evaluations of Draft MPA Arrays and Draft External MPA Proposals

G. Review and Discuss the Marine Mammals Evaluation Results

Potential SAT Action: Approve the marine mammals evaluations results and PowerPoint presentation

L. Review and Discuss the Commercial and Recreational Fishing Evaluation Results

Potential SAT Action: Approve the commercial and recreational fishing evaluation results and PowerPoint presentation

IV. Water Quality Evaluation Methods

M. Review and Discuss Proposed Water Quality Evaluations Methods and Draft Results

Potential SAT Action: Approve the proposed water quality evaluation methods

V. MPAs and Adaptive Management

N. Proposed Concepts for Designing a Network of MPAs for Adaptive Management

Potential SAT Action: Approve concepts for designing a network of MPAs for adaptive management

VI. Beach Manipulation and Habitat Restoration Activities

O. Review and Discuss the Beach Manipulation Activities Document

Potential SAT Action: Approve the beach manipulation activities document

P. Review and Discuss Wetland Restoration Activities Background Document

VII. Science Questions

Q. Review and Discuss SAT Responses to Questions Received at SCRSG Meetings

Potential SAT Action: Approve response to science question #3 received at the January 13-14, 2009 meeting of the SCRSG

Wrap Up and Next Steps

Adjourn

California Marine Life Protection Act Initiative
Master Plan Science Advisory Team
Draft Meeting Agenda
(revised February 23, 2009)

Tuesday, February 24, 2009
9:30 a.m. via teleconference and online meeting (webinar)

Toll-free conference call
Dial-in number: 800.697.5978
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California Department of Fish and Game *
4665 Lampson Avenue, Suite C
Los Alamitos, CA 90720

Southwest Fisheries Science Center *
3333 North Torrey Pines Court
Room 300
La Jolla, CA 92037-1022

UCSB Marine Science Institute
Marine Science Research Building*
Room 3322
Santa Barbara, CA 93106-6150

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Public Participation: The public will be invited by the co-chairs to offer comments on agenda action items. General comments on the work of the MLPA Master Plan Science Advisory Team (SAT), ***not directed to specific agenda items, will be taken after lunch at approximately 12:45 p.m.*** Note that the general comment period is for public comment specific to the SAT; comments related to the regional stakeholder group, Blue Ribbon Task Force or other MLPA Initiative activities should be directed to those bodies or MLPA staff. Meeting materials will not be provided at the meeting but will be posted to the MLPA website as soon as they are available. This agenda may be found on the MLPA website at http://www.dfg.ca.gov/mlpa/meetings_sc.asp.

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Meeting Objectives

- Discuss and potentially approve the MLPA Master Plan Science Advisory Team (SAT) response to the MLPA Blue Ribbon Task Force (BRTF) request regarding U.S. Department of Defense "military use areas"
- Review, discuss and potentially approve marine protected area (MPA) design guidelines and evaluation methods for the MLPA South Coast Study Region
- Review, discuss and potentially approve the list of species likely to benefit from MPAs
- Review and potentially approve SAT responses to questions from the MLPA South Coast Regional Stakeholder Group (SCRSG)

Meeting Agenda

Note: The SAT will break for lunch at approximately 12:00 noon and public comment will be taken following lunch at approximately 12:45 p.m.

Welcome, Introductions and Review of Agenda

I. Updates

- A. MarineMap and Progress of SAT Work Groups
- B. Water Quality Guidance

BRIEFING DOCUMENT B.1 - Draft Recommendations for Considering Water Quality and Marine Protected Areas in the MLPA South Coast Study Region (revised February 9, 2009)

BRIEFING DOCUMENT B.2 – Areas of Water Quality Concern and Opportunities Maps for Subregions 1, 2, 3 and 4 (revised February 13, 2009)

- C. External Data Protocol

BRIEFING DOCUMENT C.1 - Draft Protocol for Evaluating Incoming Data from Sources External to the Master Plan Science Advisory Team (revised February 17, 2009)

BRIEFING DOCUMENT C.2 – California MLPA Master Plan Science Advisory Team Draft Form for the Submission of External Data (revised February 17, 2009)

II. BRTF Request Regarding Military Use Areas

- D. Review and Discuss SAT Response and Presentation to the BRTF Regarding Military Use Areas

Potential SAT Action: Approve SAT document providing background information for BRTF questions regarding military use areas in the MLPA South Coast Study Region

Potential SAT Action: Approve SAT presentation to the BRTF regarding military use areas

BRIEFING DOCUMENT D.1: Draft Analysis of Military Use Areas in the MLPA South Coast Study Region – Handout

BRIEFING DOCUMENT D.2: Draft Science Advisory Team Analysis of Military Use Areas in the South Coast PPT – Handout

III. MPA Design Guidelines and Evaluation Methods for the South Coast Study Region

- E. Update on the Compiled MPA Evaluation Methods Document

BRIEFING DOCUMENT E.1: Draft Methods Used to Evaluate Marine Protected Area Proposals for the MLPA South Coast Study Region (revised February 18, 2009)

- F. Review and Discuss the MPA Evaluation Methods Executive Summary

Potential SAT Action: Approve the evaluation methods executive summary

G. Review Pelagic Habitat Addition to the Key and Unique Habitats Chapter

Potential SAT Action: Approve the pelagic habitats addition to the key and unique habitats chapter

BRIEFING DOCUMENT G.1: Map of the Key and Unique Habitats in the MLPA South Coast Study Region (Revised February 13, 2009)

H. Habitat Replication

- Seek resolution to the single large or several small habitat patches discussion

BRIEFING DOCUMENT H.1: Single Large or Several Small (SLOSS) Habitat Areas PPT (originally presented January 27, 2009) – Handout

I. Review of Habitat Data Sets

J. Review and Discuss Ecotrust Socioeconomic Data Collection and Evaluation methods

Dr. Astrid Scholz, Ecotrust

BRIEFING DOCUMENT J.1: Overview of Fisheries Values and Uses Project PPT – Handout

K. Fleet Models and Ecotrust Data Used in Bio-Economic Models

BRIEFING DOCUMENT K.1: Fleet Models for the Marine Life Protection Act PPT – Handout

BRIEFING DOCUMENT K.2: Draft Methods Used to Evaluate Marine Protected Area Proposals for the MLPA South Coast Study Region – Chapter 10, Bio-Economic Modeling (Revised February 23, 2009) – Handout

BRIEFING DOCUMENT K.3: Draft Methods Used to Evaluate Marine Protected Area Proposals for the MLPA South Coast Study Region – Appendix 3, Summary of Life History Parameters Used in Bio-Economic Models and Their Sources (Revised February 23, 2009) – Handout

L. Review and Discuss the Text Associated with the Levels of Protection Approved at the January 27, 2009 SAT Meeting

Potential SAT Action: Approve text associated with previously approved LOPs

M. Review and Discuss New Draft Levels of Protection

- Urchins
- Pelagic finfish depth related LOPs (30 meters versus 50 meters)
- Spearfishing
- Rock scallops

Potential SAT Action: Approve levels of protection

BRIEFING DOCUMENT M.1: Draft Methods Used to Evaluate Marine Protected Area Proposals in the MLPA South Coast Study Region – Additions to Chapter 3, Protection Levels (Revised February 23, 2009 – Handout

BRIEFING DOCUMENT M.2: Draft Methods Used to Evaluate Marine Protected Area Proposals in the MLPA South Coast Study Region – Additions to Chapter 3, Protection Levels (proposed concepts for designing an MPA network for adaptive management (February 23, 2009) - Handout

N. Update on Water Quality Evaluation Methods

IV. Species Likely to Benefit from MPAs

O. Review and Discuss the List of Species Likely to Benefit

Potential SAT Action: Approve the list of species likely to benefit from MPAs in the MLPA South Coast Study Region

BRIEFING DOCUMENT O.1: Draft Criteria for List of Species Likely to Benefit from Marine Protected Areas in the MLPA South Coast Study Region (revised February 12, 2009)

BRIEFING DOCUMENT O.2: Draft List of Species Likely to Benefit from MPAs (revised February 12, 2009)

V. Questions from the SCRSG

P. Review SAT Responses to Questions from the November 18-19, 2008 and January 13-14, 2009 SCRSG Meetings

Potential SAT Action: Approve SAT response to questions from the November 18-19, 2008 SCRSG Meeting

Potential SAT Action: Approve SAT response to questions from the January 13-14, 2009
SCSRG Meeting

BRIEFING DOCUMENT P.1: Responses to Questions Received at the November 18-19, 2008 SCSRG Meeting (revised February 10, 2009)

BRIEFING DOCUMENT P.2: Responses to Questions Received from the January 13-14, 2009 SCSRG Meeting (revised February 18, 2009)

Wrap Up and Next Steps

- Re-cap of the meeting and review items requiring action for the April 1 meeting
- Next meeting is a full day on April 1 in person (Embassy Suites LAX North) and a half day on April 3 via teleconference (note that April 3 is a state furlough day)

Adjourn

**California Marine Life Protection Act Initiative
MLPA Master Plan Science Advisory Team
Draft Meeting Agenda
(Revised January 21, 2009)**

**Friday, January 23, 2009 1:00 PM
Via Teleconference and webinar**

**Audio via toll free phone number: 800.697.5978 and Pass code: 7858702#
Presentations via GoToWebinar. Reserve your Webinar seat now at
<https://www1.gotomeeting.com/register/573854808>**

(Requires Windows 2000, XP Home, XP Pro, 2003 Server, Vista or Mac OS X 10.4 (Tiger) or newer)

For teleconference and webinar access:

Resources Building*
1416 Ninth Street, Suite 1311, Room 1206
Sacramento, CA 95814

California Department of Fish and Game*
4665 Lampson Ave. Suite C
Los Alamitos, CA, 90720

And

Tuesday, January 27, 2009 9:30 a.m.

**Sheraton Gateway Los Angeles Hotel *
6101 West Century Boulevard
Los Angeles, CA 90045**

Public participation: On January 23 members of the public are invited to listen to the meeting using the toll-free phone number and to watch presentations via the webinar link, or may use the MLPA offices listed above to listen, watch and provide comment. On January 27 members of the public are invited to attend the meeting in person or view and listen to the meeting via simultaneous webcasting on the Internet. Both portions of the meeting may be viewed in an archived version approximately two days after the meeting.

Public comment

The public will be invited by the co-chairs to offer comments on agenda action items. General comments on the work of the MLPA Master Plan Science Advisory Team (SAT), not directed to specific agenda items, will be taken at approximately 3:10 p.m. on Friday, January 23, 2009 and at approximately 12:45 p.m. on Tuesday, January 27, 2009. Note that the general comment period is for comments specific to the MLPA SAT; comments related to the regional stakeholder group, task force or other MLPA Initiative activities should be directed to those bodies or MLPA staff. Meeting materials will not be provided at the meeting but will be posted to the MLPA website as soon as they are available. This agenda may be found on the MLPA website at http://www.dfg.ca.gov/mlpa/meetings_sc.asp.

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Meeting Objectives

- Review and potentially adopt marine protected area (MPA) evaluation methods for the MLPA South Coast Study Region
- Review preliminary responses to science questions from the MLPA South Coast Regional Stakeholder Group (SCRSO)
- Review list of species likely to benefit from MPAs
- Designate SAT MPA Proposal Evaluation Work Group members

Meeting Agenda January 23, 2009

Note: Public comment will be taken at approximately 3:10 p.m.

Welcome, Introductions and Review of Agenda	
Updates BRIEFING DOCUMENT Update 1: SAT Meeting Summary December 17, 2008 - Handout BRIEFING DOCUMENT Update 2: SAT member comments on documents from the December 17, 2008 meeting - Handout	
I. SAT MPA Proposal Evaluation Work Team (to be continued on day 2 of the meeting) BRIEFING DOCUMENT I-1 SAT MPA Proposal Evaluation Work Team	
II. MPA Design Guidelines and Evaluation Methods for the MLPA South Coast Study Region (to be continued on day 2 of the meeting)	
A.	Habitat Representation <ol style="list-style-type: none"> 1. Review and potentially approve key and unique habitats document 2. Briefing on habitat data sets 3. Review and potentially approve habitat evaluation methods Potential SAT Action: Approve any proposed changes to design guidelines and evaluation methods for habitat representation BRIEFING DOCUMENT A-1: <i>Key and Unique Habitats in the MLPA South Coast Study Region</i> (revised January 20, 2009) BRIEFING DOCUMENT A-2: PowerPoint Presentation Slides: <i>Habitat representation evaluations methods</i> - Handout BRIEFING DOCUMENT A-3: Habitat Representation Evaluation Methods
B.	Habitat Replication <ol style="list-style-type: none"> 1. Update on species-area relationships 2. Review and potentially approve evaluation methods 3. Discussion regarding habitat patch size (sum of smaller patches versus minimum size criterion) Potential SAT Action: Approve any proposed changes to design guidelines and evaluation methods for habitat replication BRIEFING DOCUMENT B-1: PowerPoint Presentation Slides: <i>Habitat Replication Evaluation Methods</i> - Handout BRIEFING DOCUMENT B-2: Habitat Replication Evaluation Methods

	C.	Spacing Guidelines and Evaluation Methods BRIEFING DOCUMENT C-1: Power Point Slides: Spacing Guidelines and Evaluation Update
	D.	Update on Model Outputs and Uses of Models in Evaluation of Proposed MPAs BRIEFING DOCUMENT D-1: Bio-Economic Modeling BRIEFING DOCUMENT D-2: Power Point Slides: Modeling Evaluation Update - Handout
	E.	Levels of Protection 1. Update on assigned levels of protection using the approach approved on December 17, 2008 BRIEFING DOCUMENT E-1: Draft Levels of Protection for the MLPA South Coast Study Region
	F.	Birds and Mammals Evaluation Methods Potential SAT Action: Approve methods for evaluating birds and mammals in the MLPA South Coast Study Region BRIEFING DOCUMENT F-1: Guidelines and Evaluation Methods for Marine Birds and Mammals in the MLPA South Coast Study Region BRIEFING DOCUMENT F-2: Power Point Slides: Marine Bird and Mammals Evaluations - Handout
III. Questions from the MLPA South Coast Regional Stakeholder Group (to be continued on Day 2 of the meeting)		
	G.	Review preliminary responses to questions from SCRSG meeting #2 BRIEFING DOCUMENT G-1: Draft Responses to Questions Received at the November 18-19, 2008 South Coast Regional Stakeholder Group Meeting
Wrap Up and Next Steps		
Recess		

**California MLPA Master Plan Science Advisory Team
Draft January 23 and 27, 2009 Meeting Summary
(revised February 9, 2009)**

**Friday, January 23, 2009
1:00 p.m. – 5:00 p.m.**

Via teleconference and webinar

**Toll free phone number: 1 (800) 697.5978 Pass code: 7858702#
<https://www1.gotomeeting.com/register/573854808>**

On-site teleconference and webinar access was provided at two locations:

Resources Building *
1416 Ninth Street, Room 1206
Sacramento, CA 95814

California Department of Fish and Game *
4665 Lampson Avenue, Suite C
Los Alamitos, CA 90720

and

**Tuesday, January 27, 2009
9:30 a.m. – 5:30 p.m.**

**Sheraton Gateway Los Angeles Hotel
6101 West Century Boulevard
Los Angeles, CA 90045**

Note: Audio and video recordings of this meeting are the formal record of actions taken by the MLPA Master Plan Advisory Team (SAT) and are available on the Internet at <http://www.dfg.ca.gov/mlpa/>. Please contact AGP Video Services at (805) 772-2715 to obtain DVD copies of these recordings.

This document is a draft summary generated by MLPA Initiative staff as a service to the public and has not yet been reviewed by the MLPA Master Plan Science Advisory Team (SAT). The SAT will review this summary at its February 24, 2009 meeting. This meeting was a two day meeting with the first portion of the meeting held on January 23, 2009 as a webinar/teleconference and the second day held on January 27, 2009 in Los Angeles.

Meeting Objectives

- Review and potentially adopt marine protected area (MPA) evaluation methods for the MLPA South Coast Study Region
- Review preliminary responses to science questions from the MLPA South Coast Regional Stakeholder Group (SCRSG)
- Review list of species likely to benefit from MPAs
- Designate SAT MPA Proposal Evaluation Work Group members

The meeting agenda may be found on the MLPA website at http://www.dfg.ca.gov/mlpa/meetings_sc.asp

Executive Summary

The fifth meeting of the SAT took place via teleconference and webinar on January 23 and at the Sheraton Gateway Los Angeles Hotel on January 27, 2009. SAT members approved:

- Briefing document A-1
- Briefing document A-3
- Briefing document B-2
- Briefing document D-1
- Briefing document F-1
- Briefing document G-1
- Briefing document H-1
- Briefing document I-1
- Briefing document L-1
- The approach to defining levels of protection

Briefing document descriptions are included at the end of this summary. Some documents were approved with minor edits or caveats noted in this summary, and all documents in the MLPA process are living documents that could be modified in the future.

Meeting Summary - January 23, 2009 via Teleconference and Webinar

SAT members attending on January 23: Larry Allen, Richard Ambrose, Mark Carr, Susan Chivers, Paul Dayton, Dominic Gregorio, John Largier, Steven Morgan, Steve Murray, Dan Pondella, Pete Raimondi, Dan Robinette, Astrid Scholz, Stephen Stohs, Stephen Weisberg and Steve Wertz.

SAT members absent on January 23: Eric Bjorkstedt, Chris Costello, Kevin Fleming, Steve Gaines and Ray Hilborn.

Welcome, Introductions and Review of Agenda

Co-chair Steve Murray welcomed everyone to the teleconference and webinar and then asked staff to provide participants with instructions for how to participate in this format that is relatively new for the SAT. The SAT then reviewed the agenda for the day; no changes were made.

Updates

The SAT was asked by the MLPA Blue Ribbon Task Force (BRTF) to provide information about the ecology and connectivity patterns of the military use areas in the MLPA South Coast Study Region (SCSR), including offshore San Nicholas Island, San Clemente Island and Camp Pendleton. A work group will be formed to address this request and work with members of the

BRTF and representatives from the U.S. Department of Defense to provide a report at the BRTF's February 26, 2009 meeting.

The SAT was also provided with a written summary of its December 17, 2008 meeting as well as a copy of written comments submitted by SAT members on documents discussed at the same meeting.

I. Briefing on the SAT MPA Proposal Evaluation Work Group

MLPA staff member Evan Fox presented a document detailing the requirements for the MPA proposal evaluations, and SAT members were asked to volunteer to serve on work groups for each evaluation method.

II. MPA Design Guidelines and Evaluation Methods for the MLPA South Coast Study Region

A. Habitat Representation

1. Review and potentially approve key and unique habitats document.
The SAT approved the key and unique habitats document, pending some minor edits.
2. Briefing on habitat data sets.
MLPA staff presented a spreadsheet listing the occurrence of habitats in the SCSR, and SAT members were requested to provide clarifying information about the distribution of those habitats.
3. Review and potentially approve habitat evaluation methods.
The SAT approved the habitat evaluation methods document presented by SAT member Mark Carr.

B. Habitat Replication

1. Update on species-area relationships.
SAT member Pete Raimondi presented an update on species-area relationships being developed for various habitats and specifically discussed in detail soft bottom habitats in the SCSR. The conclusion for soft bottom habitats was that 90% of the available species would be included in an MPA with eight square miles of soft bottom habitat.
2. Review and potentially approve evaluation methods.
The SAT made minor changes to the language in the habitat replication evaluation methods document, and then approved the edited document.
3. Discussion on habitat patch size (sum of smaller patches versus minimum size criterion).
SAT member Pete Raimondi presented a species-area curve and SAT members discussed the issue of a "single large or several small" (SLOSS) MPAs relative to habitat replication. A key issue was that several small MPAs could capture the same number of species as a single large MPA, but those species might not persist and the interspecific interactions within MPAs could be different in smaller ones.

C. Spacing Guidelines and Evaluation Methods

MLPA staff member Satie Airame presented a PowerPoint about the spacing guidelines and evaluation methods, and requested that SAT members be ready to discuss the methods during the second part of the meeting on January 27.

D. Update on Model Outputs and Uses of Models in Evaluation of Proposed MPAs

MLPA staff member Satie Airame announced there would be a model update at the second part of the meeting on January 27, and asked that SAT members be prepared to discuss the bio-economic modeling document (Briefing Document D-1).

E. Levels of Protection

1. Update on assigned levels of protection using the approach approved on December 17, 2008

SAT member Larry Allen reviewed the levels of protection (LOP) flowchart and current issues that the LOP work group is discussing, such as whether to use the 30 meter isobath or the 50 meter isobath as a depth division for certain types of activities. He asked SAT members to be ready to discuss the new LOP designations on January 27.

F. Birds and Mammals Evaluation Methods

SAT member Susan Chivers presented an updated methods document that incorporated SAT feedback since the December 17, 2008 meeting. SAT members approved the birds and mammals evaluation methods document.

III. Questions from the South Coast Regional Stakeholder Group (SCRSB)

G. Review Preliminary Responses to Questions from SCRSB Meeting #2

MLPA staff member Jason Vasques asked that SAT members review preliminary responses to science questions and be prepared to discuss them on January 27.

Meeting Summary - January 27, 2009 at Sheraton Gateway Los Angeles Hotel

SAT members attending on January 27: Larry Allen, Richard Ambrose, Eric Bjorkstedt, Mark Carr, Susan Chivers, Chris Costello, Paul Dayton, Steve Gaines, Dominic Gregorio, Ray Hilborn, John Largier, Steven Morgan, Steve Murray, Dan Robinette, Astrid Scholz, Stephen Stohs, Stephen Weisberg and Steve Wertz.

SAT members absent on January 27: Kevin Fleming, Dan Pondella and Pete Raimondi.

Welcome, Introductions and Review of Agenda

On January 27, 2009, the second part of the fifth meeting of the MLPA Master Plan Science Advisory Team (SAT) for the South Coast Study Region (SCSR) was held at the Sheraton Gateway Los Angeles Hotel. Co-chair Steve Murray welcomed everyone to the meeting. The SAT then reviewed the agenda for the day; no changes were made.

Updates

MLPA Initiative Executive Director Ken Wiseman and California Department of Fish and Game's Marine Region Habitat Conservation Program Manager Becky Ota spoke about the current California state budget issues. The bond freeze created only a minor delay in the MLPA mapping process, and the potential future statewide furloughs will not interrupt the MLPA process.

SAT member Steve Murray developed a set of questions to guide the SAT work group charged with describing the ecology of the U.S. Department of Defense areas of use in the SCSR. SAT members volunteering for the work group are Paul Dayton, Dominic Gregorio, John Largier, Steve Murray, Dan Pondella and Dan Robinette.

MLPA staff member Satie Airame was identified as the staff lead for policy implications; SAT members should contact her if they have a question about policy.

I. SAT MPA Proposal Evaluation Work Group (continued from Day 1)

SAT members who volunteered for the evaluation work group are Larry Allen, Susan Chivers, Paul Dayton, Steven Murray, Dan Pondella, Dan Robinette and Stephen Stohs.

SAT members were again asked to contact staff to volunteer for evaluation work groups. The list of work group members will be updated at the next SAT meeting.

II. MPA Design Guidelines and Evaluation Methods for the MLPA South Coast Study Region (continued from Day 1)

H. Review and Discuss Methods for Evaluating MPA Size

SAT member Steve Gaines presented the reasoning behind having size guidelines and the background of how they were developed. He raised a technical issue about which some SCRSG members have been concerned: the guidelines refer to three statute miles along the coast and offshore, but the state waters boundary is three nautical miles offshore. If MPAs extend to the state boundary, they will be larger than the nine square statute mile minimum referred to in the guidelines.

After considerable discussion, the SAT voted to delete the parenthetical reference in the MPA size document that refers to three miles alongshore and three miles offshore. The SAT acknowledged that at certain locations in the south coast study region it may be possible to create an MPA (cluster) that is nine square (statute) miles in area but may not meet both the recommended three nautical mile offshore distance and three statute mile alongshore distance. The SAT determined that the more important consideration was the recommendation for a minimum area of nine square (statute) miles for a MPA (cluster).

SAT member Mark Carr then presented the "a single large or several small" (SLOSS) information showed by Pete Raimondi during the January 23 portion of the meeting, and SAT

members briefly discussed the methods used to calculate the species-area curves. The SAT did not come to a conclusion about whether or not the amount of habitat in several small MPAs would be viewed as equal to the same amount of habitat in one large MPA. This issue will be revisited at the February 24, 2009 meeting.

I. Review and Discuss Methods for Evaluating MPA Spacing

SAT member Eric Bjorkstedt presented information on the MPA spacing guidelines and recommended the SCRSG members continue to use the existing guidelines for the mainland portion of the SCSR, but suggested they defer to the guidelines on bioregions and size for placing MPAs at the Channel Islands. He also suggested that the models be used to help understand connectivity among island MPAs. SAT members approved the spacing evaluation methods document.

J. Review and Discuss Model Outputs for Evaluation of Proposed MPAs

SAT member Chris Costello and Dr. Will White presented an update on the modeling evaluation process. SAT members approved the general approach to the modeling evaluation methods, but asked that the models include a feedback mechanism that stakeholders could use to inform their MPA proposals and potentially obtain better evaluation results, and the ability to conduct MPA-specific analyses. SAT members also asked for a clarification of how the fishery management and fleet data are being used, and stated that the models should be used to provide additional information during the evaluation process, but not supplant any of the current evaluation methods. Modelers asked SAT members to provide information about species distributions in the SCSR.

K. Levels of Protection

1. Review and discuss levels of protection using the approach approved on December 17, 2008

SAT member Larry Allen presented the level of protection (LOP) table and asked for feedback from SAT members on the new proposed designations. SAT members requested a table of how each species ran through the LOP dichotomous key, and were requested to send comments to Mark Carr and Larry Allen if they had comments about each activity's ranking LOP. SAT members agreed with the general approach to assigning levels of protection, and looked forward to seeing more levels assigned by the next SAT meeting.

2. Discuss cumulative impacts of multiple levels of protection and benthic-pelagic coupling

SAT member Ray Hilborn presented an example of how cumulative impacts might be determined in MPAs. The system involved scoring the percent of biomass that would be lost due to a proposed activity for each species in an MPA. SAT members were agreeable to the general approach and were interested to see more work done on this topic.

L. Water Quality

1. Review and discuss revised water quality guidance document

SAT member Dominic Gregorio presented the revised water quality guidance document and associated maps. In response to SAT member comments, water quality work group members proposed a revised set of maps: one with water quality, one with sediment toxicity, and one highlighting three facilities of concern (stormwater outflow, power plant

intakes, and treatment plants). SAT members agreed that these maps would be useful and requested that the water quality work group create them. The SAT then approved the water quality guidance document pending the addition of a paragraph about hypoxia and a differentiation between major and intermediate wastewater treatment plants.

2. Update on proposed evaluation methods

The water quality work group has discussed potential evaluation methods, and the members are leaning towards an approach based on a binary presence/absence of areas of concern in proposed MPAs. The work group plans to have a more formalized update at the February 24 meeting.

IV. Habitat Quality in the South Coast Study Region

M. Update on Habitat Quality Topics

MLPA staff member Jason Vasques informed the SAT that the habitat quality work group has been working on the topics presented at the December 17, 2008 meeting, and it will present a more extensive report at the February 24 meeting.

V. Species Likely to Benefit from MPAs

N. Review and Discuss Populated List of Species Likely to Benefit from MPAs

SAT member Larry Allen presented the draft list of species likely to benefit from MPAs with scores based on a newly-devised scoring system. This system was based on criteria approved at the December 17, 2008 SAT meeting, but used fewer scores to rank the species. SAT members commented on the new scoring system and suggested potential new approaches. The species likely to benefit work group will revisit the list and address the issues voiced by the SAT. The list will be refined to exclude the species that do not pass the filtering criteria and the reasons behind some scores will be clarified. SAT members were asked to review the list and send comments to the SAT Species Likely to Benefit Work Group for review. A new draft list of species will be presented at the February 24 SAT meeting.

III. Questions from the SCRSG (continued from Day 1 of the meeting)

O. Review Responses to Questions from the November 18-19, 2008 SCRSG Meeting

MLPA staff member Mike Prall presented the answer to a SCRSG question about halibut movement. SAT members approved the response for dissemination to the SCRSG.

P. SAT Work Groups to Respond to Questions from the January 13-14, 2009 SCRSG Meeting

MLPA staff member Mike Prall presented a list of questions from the SCRSG meeting. Questions were then assigned to staff members and SAT work groups. Question 1 was assigned to the new work group on the ecology of SCSR military use areas. Questions 2 and 3 were assigned to MLPA staff member Satie Airame for coordination with the modeling and size and spacing work groups. Questions 4 and 5 were assigned to the SAT Water Quality Work Group.

Q. Protocol for Assigning SAT Members to Future SCRSG Questions

MLPA staff member Mike Prall presented a new protocol for assigning SCRSG questions. In the future, staff will assign SCRSG questions to SAT members or work groups, with concurrence from the SAT co-chairs, without waiting until an SAT meeting. The SAT approved this process.

Public Comment

Members of the public commented on a wide variety of issues during both parts of the SAT meeting. Comments included clarifying questions about the size and spacing guidelines and how they should be applied by members of the SCRSG. Members of the public also raised concerns about the harbor seal colony at Children's Beach in San Diego and provided feedback concerning the discussion about whether to use the 30 meter or 50 meter isobath for certain level of protection designations. At the January 27 meeting, many public comments focused on spearfishing; spearfishermen raised concerns about the spearfishing level of protection and gave personal accounts of their spearfishing experiences.

Next Steps

The next meeting will take place on February 24, 2009 via teleconference, and staff will identify places where SAT members can gather.

Members of the SAT Sub-Team to the MLPA South Coast Regional Stakeholder Group were asked to identify their availability for future SCRSG meetings.

Briefing Documents

Briefing documents distributed in advance and at the meeting:

Update 1: SAT Meeting Summary December 17, 2008

Update 2: SAT member comments on documents from the December 17, 2008 meeting

I-1: SAT MPA Proposal Evaluation Work Team

A-1: Key and Unique Habitats in the MLPA South Coast Study Region (revised January 20, 2009)

A-2: PowerPoint Presentation Slides: Habitat Representation Evaluations Methods

A-3: Habitat Representation Evaluation Methods

B-1: PowerPoint Presentation Slides: Habitat Replication Evaluation Methods

B-2: Habitat Replication Evaluation Methods

C-1: PowerPoint Slides: Spacing Guidelines and Evaluation Update

D-1: Methods Used to Evaluate Marine Protected Area Proposals in the MLPA South Coast Study Region (Draft), Section 10.0 – Bio-Economic Modeling (Draft revised January 15, 2009)

D-2: PowerPoint Slides: Modeling Evaluation Update

- E-1: Methods Used to Evaluate Marine Protected Area Proposals in the MLPA South Coast Study Region (Draft), Section 4.0 – Protection Levels (Draft revised January 16, 2009)
- F-1: Guidelines and Evaluation Methods for Marine Birds and Mammals in the MLPA South Coast Study Region
- F-2: PowerPoint Slides: Marine Bird and Mammals Evaluations
- G-1: Draft Responses to Questions Received at the November 18-19, 2008 South Coast Regional Stakeholder Group Meeting
- H-1: Methods Used to Evaluate Marine Protected Area Proposals in the MLPA South Coast Study Region (Draft), Section 7.0 – Size (Draft revised January 5, 2009)
- I-1: Methods Used to Evaluate Draft Marine Protected Area Proposals in the MLPA South Coast Study Region (Draft), Section 8.0 – Spacing (Draft revised January 15, 2009)
- J-1: Spatial Bioeconomic Models for Evaluating Marine Protected Area Proposals
PowerPoint Presentation
- L-1: Recommendations for Considering Water Quality and Marine Protected Areas in the South Coast Study Region
- N-1: Draft list of species likely to benefit from MPAs in the South Coast Study Region
- P-1: Questions Received at the January 13-14, 2009 South Coast Regional Stakeholder Group Meeting

**California Marine Life Protection Act Initiative
MLPA Master Plan Science Advisory Team
Draft Meeting Agenda
(revised December 16, 2008)**

**Wednesday, December 17, 2008
9:30 a.m. (until approximately 5:30 p.m.)**

**Sheraton Gateway Los Angeles Hotel *
6101 West Century Boulevard
Los Angeles, CA 90045**

Members of the public are invited to attend the meeting in person or view and listen to the meeting via simultaneous webcasting on the Internet, and may view an archived version approximately two days after the meeting. Please visit the MLPA website at www.dfg.ca.gov/mlpa/meetings_sc.asp for more information. Meeting materials will not be provided at the meeting but will be posted to the MLPA website as soon as they become available.

Public participation: The public will be invited by the co-chairs to offer comments on agenda action items. General comments on the work of the MLPA Master Plan Science Advisory Team (SAT), *not directed to specific agenda items, will be taken after lunch at approximately 12:45 p.m.* Note that the general comment period is for public comment specific to the MLPA SAT; comments related to the regional stakeholder group, task force or other MLPA Initiative activities should be directed to those bodies or MLPA staff.

Meeting Objectives

- *Review and potentially adopt marine protected area (MPA) evaluation methods for the MLPA South Coast Study Region*
- *Review and discuss habitat quality guidance*
- *Review and potentially adopt revisions to criteria for the list of species likely to benefit from MPAs for the MLPA South Coast Study Region*
- *Assign work groups to address science questions from the MLPA South Coast Regional Stakeholder Group (SCRSG)*
- *Review and provide feedback on proposed science presentations to the SCRSG and MLPA Blue Ribbon Task Force*

Meeting Agenda

Note: *The SAT will break for lunch at approximately 12:15 p.m. and public comment will be taken immediately after lunch at approximately 12:55 p.m.*

Welcome, Introductions and Review of Agenda	
I. Updates	
A.	SAT calendar BRIEFING DOCUMENT A-1: <i>Meetings Schedule for the MLPA South Coast Study Region</i> (revised December 11, 2008)

* *This facility is accessible to persons with disabilities. To request reasonable accommodations for a disability, please contact California Relay Service (at least two days prior to the meeting) at 800.735.2929 (TT) or 800.735.2922 (voice) and ask them to contact the California Marine Life Protection Act Initiative at 916.653.5656.*

	<p>B. Update on joint meeting of the California Fish and Game Commission and MLPA Blue Ribbon Task Force</p>
	<p>C. Restored habitats work group</p>
<p>II. MPA Design Guidelines and Evaluation Methods for the MLPA South Coast Study Region BRIEFING DOCUMENT II-1: Draft Summary of Methods Used to Evaluate MPA Proposals in the MLPA South Coast Study Region (revised December 12, 2008)</p>	
	<p>D. Habitat representation</p> <ul style="list-style-type: none"> i. Review guidelines ii. Review evaluation methods iii. Bioregion areas identified <p>Potential SAT Action: Approve any proposed changes to design guidelines and evaluation methods for habitat representation</p> <p>BRIEFING DOCUMENT D-1: <i>Key and Unique Habitats in the MLPA South Coast Study Region</i> (revised December 8, 2008)</p> <p>BRIEFING DOCUMENT D-2: <i>Map: Divisions between biogeographically relevant bioregions of the MLPA South Coast Study Region</i> (revised December 12, 2008, to be inserted into the revised draft analysis of bioregions)</p> <p>BRIEFING DOCUMENT D-3: Draft analysis of bioregions in the MLPA South Coast Study Region (to be updated with new map and previously agreed to changes)</p> <p>BRIEFING DOCUMENT D-4: PowerPoint presentation regarding habitat representation</p>
	<p>E. Size and Spacing</p> <ul style="list-style-type: none"> i. Review guidelines and connectivity modeling results ii. Review and discuss evaluation methods <p>Potential SAT Action: Approve any proposed changes to design guidelines and evaluation methods for size and spacing</p> <p>BRIEFING DOCUMENT E-1: PowerPoint presentation: <i>Modeling Larval Connectivity for the Southern California Bight</i></p> <p>BRIEFING DOCUMENT E-2: PowerPoint presentation regarding MPA size and spacing</p>
	<p>F. Habitat replication</p> <ul style="list-style-type: none"> i. Review guidelines ii. Review evaluation methods <p>Potential SAT Action: Approve any proposed changes to design guidelines and evaluation methods for habitat replication</p> <p>BRIEFING DOCUMENT F-1: PowerPoint presentation regarding habitat replication</p>

G.	<p>Levels of protection</p> <ul style="list-style-type: none"> i. Presentation and discussion of levels of protection (LOPs) using existing method – example species ii. Update on Ray Hilborn’s refined model <p>Potential SAT Action: Approve any proposed changes to levels of protection evaluation methods and LOPs for species in the MLPA South Coast Study Region</p> <p>BRIEFING DOCUMENT G-1: <i>Draft Levels of Protection for the MLPA South Coast Study Region</i> (revised December 16, 2008)</p> <p>BRIEFING DOCUMENT G-2: PowerPoint presentation regarding levels of protection</p>
Public Comment	
III. MPA Design Guidelines and Evaluation Methods for the MLPA South Coast Region (continued)	
H.	<p>Modeling Evaluation Tools</p> <ul style="list-style-type: none"> i. Update on population sustainability (UC Davis) model as evaluation tool ii. Update on EDOM model <p>Potential SAT Action: Approve any proposed changes to modeling approach for evaluating MPAs in the MLPA South Coast Study Region</p> <p>BRIEFING DOCUMENT H-1: PowerPoint presentation: <i>Spatial bioeconomic models for MPA network design</i></p>
I.	<p>Birds and Mammals</p> <ul style="list-style-type: none"> i. Update from the SAT Birds and Mammals Work Group ii. Review evaluation methods <p>Potential SAT Action: Approve any proposed changes to approach for evaluating birds and mammals in the MLPA South Coast Study Region</p> <p>BRIEFING DOCUMENT I-1: <i>Summary of Guidelines and Evaluation Methods for Marine Birds and Mammals in the MLPA South Coast Study Region</i> (revised December 9, 2008)</p>
IV. Habitat Quality	
J.	<p>Water quality</p> <ul style="list-style-type: none"> i. Update from the SAT Water Quality Work Group ii. Discuss proposal for how water quality should be addressed in the evaluation of MPA proposals <p>Potential SAT Action: Approve proposed approach for evaluating water quality in the MLPA South Coast Study Region</p> <p>BRIEFING DOCUMENT J-1: <i>Recommendations for Considering Water Quality and Marine Protected Areas in the MLPA South Coast Study Region</i> (revised December 11, 2008)</p>

	<p>K. Beach manipulation activities</p> <ul style="list-style-type: none"> i. Update from the SAT Habitat Quality Work Group ii. Review and discuss background document <p>Potential SAT Action: Approve background document regarding beach manipulation activities in the MLPA South Coast Study Region</p> <p>BRIEFING DOCUMENT K-1: <i>Draft Background Information Regarding Beach Manipulation Activities in the MLPA South Coast Study Region</i> (revised December 16, 2008)</p>
V. Species Likely to Benefit from MPAs	
	<p>L. Update from the SAT Species Likely to Benefit Work Group</p>
	<p>M. Discuss revisions to criteria to be used to develop list of species likely to benefit</p> <p>Potential SAT Action: Approve criteria to be used to develop the list of species likely to benefit from MPAs in the MLPA South Coast Study Region</p> <p>BRIEFING DOCUMENT M-1: <i>Draft Criteria for List of Species Likely to Benefit from Marine Protected Areas in the MLPA South Coast Study Region</i> (revised December 6, 2008)</p>
VI. Science Questions	
	<p>N. Review science questions</p> <p>Potential SAT Action: Assign work groups for individual questions</p> <p>BRIEFING DOCUMENT N-1: <i>Questions Received at the November 18-19, 2008 MLPA South Coast Regional Stakeholder Group Meeting</i> (revised December 10, 2008)</p>
VII. Proposed Science Presentations	
	<p>O. Oceanography</p> <p>BRIEFING DOCUMENT O-1: Draft PowerPoint presentation: <i>Southern California Oceanography, MLPA South Coast Study Region</i></p>
	<p>P. Birds and Mammals</p> <p>BRIEFING DOCUMENT P-1: Draft PowerPoint Presentation: <i>Marine Birds and Marine Mammals of the MLPA South Coast Study Region</i></p>
	<p>Q. Water Quality</p> <p>BRIEFING DOCUMENT Q-1: Draft PowerPoint presentation: <i>Water Quality in the MLPA South Coast Study Region</i></p>
Wrap Up and Next Steps	
Adjourn	

**California MLPA Master Plan Science Advisory Team for the
MLPA South Coast Study Region
Draft Meeting Agenda
(revised November 11, 2008)**

**Wednesday, November 12, 2008
9:30 a.m. (until approximately 5:30 p.m.)**

**Sheraton Gateway Los Angeles Hotel *
6101 West Century Boulevard
Los Angeles, CA 90045**

Members of the public are invited to attend the meeting in person or view and listen to the meeting via simultaneous webcasting on the Internet, and may view an archived version approximately two days after the meeting. Please visit the MLPA website at www.dfg.ca.gov/mlpa/meetings_sc.asp for more information. Meeting materials will not be provided at the meeting but will be posted to the MLPA website as soon as they become available.

Public participation: The public will be invited by the co-chairs to offer comments on agenda action items. General comments on the work of the MLPA Master Plan Science Advisory Team (SAT), *not directed to specific agenda items, will be taken after lunch at approximately 1:25 p.m.* Note that the general comment period is for public comment specific to the MLPA SAT; comments related to the regional stakeholder group, task force or other MLPA Initiative activities should be directed to those bodies or MLPA staff.

Meeting materials: Please note that meeting materials are listed at the bottom of the agenda as either attachments (received in advance of the meeting) or handouts (received on the day of the meeting).

Meeting Objectives

- *Discuss the California Fish and Game Commission request regarding the northern Channel Islands*
- *Discuss application of size and spacing guidelines to the MLPA South Coast Study Region*
- *Discuss and potentially adopt bioregions for the MLPA South Coast Study Region*
- *Discuss and potentially adopt the list of key and unique habitats in the MLPA South Coast Study Region*
- *Discuss restored habitats, habitat alterations, and artificial structures*
- *Review and begin developing the criteria and methods used in determining levels of protection for the MLPA South Coast Study Region*
- *Review, discuss and potentially adopt criteria to develop the species likely to benefit list for the MLPA South Coast Study Region*
- *Review and provide feedback on proposed presentations to the MLPA South Coast Regional Stakeholder Group*

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Meeting Agenda

Note: Public comment will be taken immediately after lunch at approximately 1:25 p.m.

1.	Welcome, Introductions and Review of Agenda
2.	Updates [Attachment 1; Handouts A-B]
3.	California Fish and Game Commission Request Regarding the Northern Channel Islands [Handouts C-E] A. Northern Channel Islands portion of evaluation of existing marine protected areas B. Connectivity between the mainland and islands C. Discuss presentation of information to the California Fish and Game Commission
4.	Size and Spacing Guidelines for Marine Protected Areas in the MLPA South Coast Study Region A. Discuss size and spacing guidelines and application to the study region B. Update from oceanographic workshop
5.	Bioregions in the MLPA South Coast Study Region [Attachment 2] A. Update from the bioregions work group B. Discuss habitat replication within bioregions C. Potentially adopt suggested bioregions and guidance for replication
6.	Key and Unique Habitats in the MLPA South Coast Study Region [Attachment 3] A. Update from the key and unique habitats work group B. Discuss and potentially adopt draft list of key and unique habitats C. Discuss implications for evaluation methods
7.	Restored Habitats in the MLPA South Coast Study Region [Attachment 4] A. Receive update from the work group B. Discuss projects and structures that affect habitat
8.	Levels of Protection in the MLPA South Coast Study Region [Handout F] A. Update from the levels of protection work group B. Discuss criteria and methods used in establishing levels of protection
9.	Draft List of Species Likely to Benefit from Marine Protected Areas in the MLPA South Coast Study Region [Attachment 5] A. Update from the species likely to benefit work group B. Discuss and potentially adopt criteria used to develop list of species
10.	Proposed Presentations to the MLPA South Coast Regional Stakeholder Group [Handouts G-H] A. Adult movements and larval transport B. Habitats in the MLPA South Coast Study Region
11.	Wrap up and Next Steps
	Adjourn

Attachments

1. Draft form for reporting ex parte communication
2. *Draft Analysis of Biogeographical Subregions in the MLPA South Coast Study Region* (Revised November 7, 2008)
3. *Draft Key and Unique Habitats in the MLPA South Coast Study Region* (November 6, 2008)
4. *Draft Background Information for Discussion of Projects and Artificial Structures that Affect Habitats in the MLPA South Coast Study Region* (November 4, 2008)
5. *Draft Criteria for the List of Species Likely to Benefit from Marine Protected Areas in the MLPA South Coast Study Region* (November 5, 2008)

Handouts

- A. Summaries for September 10, 2008 and September 15, 2008 SAT meetings
- B. Calendar of meetings for the MLPA South Coast Study Region
- C. *Summary of Evaluation of Existing MPAs in the Northern Channel Islands of the MLPA South Coast Study Region: Habitat Representation/Replication and Size/Spacing* (November 9, 2008)
- D. PowerPoint presentation: *Connectivity in the MLPA South Coast Study Region* (Dr. Satie Airamé, Science and Planning Advisor, MLPA Initiative)
- E. PowerPoint presentation: *SAT Evaluations of Northern Channel Islands MPAs* (Mark Carr, draft presentation to the California Fish and Game Commission for review)
- F. PowerPoint presentation: *A Framework for Determining Levels of Protection Designations as Used in the MLPA North Central Coast Study Region* (Mark Carr, on behalf of the SAT Levels of Protection Work Group)
- G. PowerPoint presentation: *Fish Adult Movement and Larval Dispersal: Science to inform marine protected area design* (Jenn Caselle, University of California, Santa Barbara and Mark Carr, draft presentation to the MLPA South Coast Regional Stakeholder Group)
- H. PowerPoint presentation: *Habitats in the MLPA South Coast Study Region as they relate to MLPA goals and SAT evaluation* (Larry G. Allen and Mark Carr; draft presentation to the MLPA South Coast Regional Stakeholder Group)

California MLPA Master Plan Science Advisory Team
November 12, 2008 Meeting Summary
(revised December 12, 2008)

Wednesday, November 12, 2008
9:30 a.m.

Sheraton Gateway Los Angeles Hotel
6101 West Century Boulevard
Los Angeles, CA 90045
and via simultaneous webcast

Note: Audio and video recordings of this meeting are available on the Internet at <http://www.dfg.ca.gov/mlpa>. Please contact AGP Video Services at (805) 772-2715 to obtain DVD copies of these recordings.

SAT members attending: Larry Allen, Richard Ambrose, Eric Bjorkstedt, Mark Carr, Susan Chivers, Chris Costello, Paul Dayton, Kevin Fleming, Steve Gaines, Dominic Gregorio, Ray Hilborn, Steven Morgan, Steve Murray, Dan Pondella, Dan Robinette, Astrid Scholz, Stephen Stohs, Steve Wertz

SAT members absent: John Largier, Pete Raimondi, Stephen Weisberg.

Meeting Objectives

- *Discuss California Fish and Game Commission request regarding the northern Channel Islands*
- *Discuss application of size and spacing guidelines to the MLPA South Coast Study Region*
- *Discuss and potentially adopt bioregions for the MLPA South Coast Study Region*
- *Discuss and potentially adopt the list of key and unique habitats in the MLPA South Coast Study Region*
- *Discuss restored habitats, habitat alterations, and artificial structures*
- *Review and begin developing the criteria and methods used in determining levels of protection for the MLPA South Coast Study Region*
- *Review and discuss criteria used to develop the species likely to benefit list for the MLPA South Coast Study Region*
- *Review and provide feedback on proposed presentations to the MLPA South Coast Regional Stakeholder Group*

The meeting agenda may be found on the MLPA website at http://www.dfg.ca.gov/mlpa/meetings_sc.asp

Summary of Actions

The third meeting of the MLPA Master Plan Science Advisory Team (SAT) for the MLPA South Coast Study Region took place at the Sheraton Gateway Los Angeles Hotel on November 12, 2008. Actions taken at this meeting:

- SAT members approved presentations on the existing North Channel Islands marine protected areas (MPAs) to be delivered to the California Fish and Game Commission, as well as presentations on fish movement and habitats in the MLPA South Coast Study Region to be presented to the MLPA Blue Ribbon Task Force and MLPA South Coast Regional Stakeholder Group.
- SAT members approved the five proposed bioregions for the MLPA South Coast Study Region.
- SAT members approved the proposed key and unique habitats.
- The work groups for levels of protection, species likely to benefit, and restored habitats will continue to refine their guidance documents and the criteria used to create them.

Meeting Summary

1. Welcome, Introductions and Review of Agenda

On November 12, 2008, the third meeting of the MLPA Master Plan Science Advisory Team (SAT) for the MLPA South Coast Study Region was held in Los Angeles.

2. Updates

Initiative staff reviewed the process of receiving and answering questions to the SAT, and SAT members were instructed on how to use the new ex parte communication forms to help achieve the goal of transparency, consistent with the Bagley-Keene Open Meeting Act.

Staff also announced meeting dates for the remainder of the process; some future SAT meetings will be two days long, with one day being a conference call. The next SAT meeting date is December 17, 2008, and future proposed dates are January 23 & 27, February 24, April 1 & 3, May 5, June 18, and October 6, 2009.

3. California Fish and Game Commission Request Regarding the Northern Channel Islands

A. Northern Channel Islands portion of evaluation of existing MPAs

The California Fish and Game Commission requested that the SAT conduct an evaluation of the existing marine protected areas (MPAs) in the northern Channel Islands (including Santa Barbara Island) using the evaluation methods outlined by the SAT. SAT member Mark Carr showed a draft presentation of this evaluation, which showed that the existing MPAs meet the size and spacing and habitat representation guidelines fairly well. SAT members unanimously

approved the evaluations for presentation to the California Fish and Game Commission at its December meeting.

B. Connectivity between the mainland and islands

MLPA Initiative Science and Planning Advisor Satie Airamé presented an assessment of the connectivity among mainland and Channel Islands populations for several species. For shorter pelagic larval durations (PLDs), the mainland and islands were not connected, while for longer PLDs, the mainland was connected to the islands; the reverse was not true. SAT members voted (with one abstention) to approve, with some minor changes, the presentation for the California Fish and Game Commission.

C. Presentation of information to the California Fish and Game Commission

SAT members approved both the size, spacing and habitat evaluations PowerPoint and the connectivity PowerPoint for presentation at the December California Fish and Game Commission meeting in Sacramento. SAT members Mark Carr and Eric Bjorkstedt will make the presentations.

4. Size and Spacing Guidelines for Marine Protected Areas in the MLPA South Coast Study Region

A. Size and spacing guidelines and application to the study region

SAT member Steve Gaines presented information on the size and spacing guidelines and how they might be applied or modified for the MLPA South Coast Study Region, due to the unusual geography of the region and features such as the Channel Islands. SAT members discussed the role the modeling effort will play in this region, and how connectivity between the islands and the mainland, as well as among islands, may be considered in the guidelines.

B. Update from the oceanographic workshop

MLPA Initiative Science and Planning Advisor Satie Airamé presented a summary of the oceanography workshop held September 16, 2008, the day after the last SAT meeting. The meeting brought a number of leading oceanographers together to discuss currents and connectivity in the MLPA South Coast Study Region, and they produced preliminary maps of regional circulation and population connectivity. SAT members commented on how these maps could be expanded and improved, as well as the potential next steps for the modeling work group. Revised information on oceanography, connectivity, and modeling will be presented at the December 17, 2008 SAT meeting.

5. Bioregions in the MLPA South Coast Study Region

A. Update from SAT Bioregions Work Group

The SAT Bioregions Work Group proposed five bioregions within the MLPA South Coast Study Region based on differences in community composition:

- (1) West Islands (the extreme western mainland as well as San Miguel, Santa Rosa, and San Nicolas islands),
- (2) North Mainland (from approximately Point Conception to northern Santa Monica Bay),
- (3) Mid Islands (Santa Cruz, Anacapa, and Santa Barbara islands),
- (4) East Islands (Santa Catalina and San Clemente islands), and
- (5) South Mainland (from southern Santa Monica Bay to the California border with Mexico).

B. Habitat replication within bioregions

SAT members discussed the difficulty of replication in some of the bioregions, and decided to include it as a caveat when discussing the bioregions with the regional stakeholder group.

C. Suggested bioregions and guidance for replication

SAT members voted to adopt the five bioregions and inform the regional stakeholder group of potential difficulties with replication in some of the bioregions.

6. Key and Unique Habitats in the MLPA South Coast Study Region

A. Update from the SAT Key and Unique Habitats Work Group

The key and unique habitats work group presented a draft list of unique habitats in the MLPA South Coast Study Region: surfgrass, eelgrass, oil seeps and shallow hydrothermal vents, and *Pelagophycus oprra* (elk kelp) beds.

B. Draft list of key and unique habitats

SAT members voted unanimously to adopt the draft list of key and unique habitats, with some minor revisions and extended explanations of the habitat selection.

C. Implications for evaluation methods

SAT members discussed how key and unique habitats would be used in the MPA evaluation process. Key habitats are already used in evaluation methods for MPA proposals, but unique habitats will not likely be considered when assigning levels of protection or determining how well different MPA proposals meet the goals of the MLPA. A map of unique habitats will be provided to the regional stakeholder group for use when determining the placement of potential MPAs.

Public Comments

Throughout the day, members of the public commented on pending SAT actions, proposed presentations, and the MLPA process in general. Members of the MLPA South Coast Regional Stakeholder Group commented several times that clarity in presentations is very important so group members can make good decisions during their meetings. Members of the public asked how the areas of the current northern Channel Islands MPAs outside of state waters would be taken into account when evaluating MPA proposals. Members of the public also thanked the SAT for the hard work and reminded members to focus on the science aspects of the MLPA and leave the policy issues for the MLPA Blue Ribbon Task Force and California Fish and Game Commission.

7. Restored Habitats in the MLPA South Coast Study Region

A. Update from the work group

SAT member Dan Pondella presented background information on restored habitats and artificial reefs in the MLPA South Coast Study Region. Since this topic involves a lot of policy questions beyond the scope of the SAT, two main questions were identified:

- 1) Is restored habitat consistent with the goals of the MLPA?
- 2) What are the impacts of certain activities like beach grooming?

B. Projects and structures that affect habitat

SAT members discussed how artificial structures might be used in the evaluation of MPA proposals, although almost all artificial reefs in the MLPA South Coast Study Region are too small to meet the minimum size guidelines for evaluation. SAT members agreed that the discussion of whether or not to count artificial structures similarly as natural ones is something that will need to be discussed in the levels of protection work group, and that more information was needed to see how artificial reefs function compared with natural reefs. Beach grooming generally occurs above the mean high tide mark, so it is outside the jurisdiction of the MLPA.

8. Levels of Protection in the MLPA South Coast Study Region

A. Update from the SAT Levels of Protection Work Group

SAT member Mark Carr presented the levels of protection decision tree so that SAT members could review the criteria upon which levels of protection are based, and gave the example of lobsters in the MLPA South Coast Study Region.

B. Criteria and methods used in establishing levels of protection

SAT members discussed potential changes to the levels of protection criteria. Comments focused on how to use a more quantitative metric, and how to incorporate cumulative impacts in a single MPA. SAT members agreed that the current criteria are a good starting point, and

the levels of protection work group will work toward creating a more quantitative metric using scores based on the ecosystem impacts of a given activity.

9. Draft List of Species Likely to Benefit from Marine Protected Areas in the MLPA South Coast Study Region

A. Update from the SAT Species Likely to Benefit Work Group

SAT member Dan Robinette presented a draft list of criteria for developing the species likely to benefit from MPAs list. This workgroup has been compiling information and expanding the criteria used for placing species on the likely to benefit list.

B. Criteria used to develop list of species

SAT members discussed the draft criteria and proposed several changes to the list. Some members were concerned about certain activities (such as trampling) and where those activities might fall on the list. Due to the number of revisions and clarifications necessary, the SAT decided to wait until the December 17, 2008 SAT meeting to vote on whether or not to approve the criteria for the species likely to benefit list. The work group will clarify some of the topics and provide an updated criteria list at the next meeting.

10. Proposed Presentations

A. Adult movements and larval transport

SAT member Mark Carr quickly reviewed a PowerPoint presentation on fish movement that will be presented to the regional stakeholder group by Dr. Jenn Caselle. SAT members commented on the presentation and voted unanimously to approve it, pending some minor changes.

B. Habitats in the MLPA South Coast Study Region

SAT member Larry Allen reviewed a PowerPoint presentation on habitats that will be presented to the regional stakeholder group by Dr. Allen. SAT members commented on the presentation and unanimously approved it, pending some changes; staff will work with Dr. Allen to revise.

11. Next Steps

Approved presentations will be made at the upcoming regional stakeholder group meeting (November 18-19, 2008) and California Fish and Game Commission meeting (December 11, 2008). SAT work groups will continue working on presentations and guiding documents. The next SAT meeting will be December 17, 2008.

Attachments

1. Draft form for reporting ex parte communications
2. *Draft Analysis of Biogeographical Subregions in the MLPA South Coast Study Region* (Revised November 7, 2008)
3. *Draft Key and Unique Habitats in the MLPA South Coast Study Region* (November 6, 2008)
4. *Draft Background Information for Discussion of Projects and Artificial Structures that Affect Habitats in the MLPA South Coast Study Region* (November 4, 2008)
5. *Draft Criteria for the List of Species Likely to Benefit from Marine Protected Areas in the MLPA South Coast Study Region* (November 5, 2008)

Handouts

- A. Summaries for September 10, 2008 and September 15, 2008 SAT meetings
- B. Calendar of meetings for the MLPA South Coast Study Region
- C. *Summary of Evaluation of Existing MPAs in the Northern Channel Islands of the MLPA South Coast Study Region: Habitat Representation/Replication and Size/Spacing* (November 9, 2008)
- D. PowerPoint presentation: *Connectivity in the MLPA South Coast Study Region* (Dr. Satie Airamé, Science and Planning Advisor, MLPA Initiative)
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- F. PowerPoint presentation: *A Framework for Determining Levels of Protection Designations as Used in the MLPA North Central Coast Study Region* (Mark Carr, on behalf of the SAT Levels of Protection Work Group)
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- H. PowerPoint presentation: *Habitats in the MLPA South Coast Study Region as they relate to MLPA goals and SAT evaluation* (Larry G. Allen and Mark Carr, draft presentation to the MLPA South Coast Regional Stakeholder Group)

California Marine Life Protection Act Initiative
Joint Meeting of the
North Central Coast Master Plan Science Advisory Team and the
South Coast Master Plan Science Advisory Team (SAT)
Draft Meeting Agenda
(revised September 11, 2008)

Monday September 15, 2008
9:30 a.m.

Embassy Suites *
1440 East Imperial Avenue
El Segundo, CA 90245

Members of the public are invited to attend the meeting in person or view and listen to the meeting via simultaneous webcasting on the Internet, and may view an archived version approximately two days after the meeting. Please visit the MLPA website at www.dfg.ca.gov/mlpa/meetings_sc.asp for more information.

Public participation: The public will be invited by the co-chairs to offer comments on agenda action items. General comments on the work of the MLPA SAT, *not directed to specific agenda items, will be taken after lunch at approximately 1:25 p.m.* Note that the general comment period is for public comment specific to the MLPA SAT; comments related to the regional stakeholder group, task force or other MLPA Initiative activities should be directed to those bodies or MLPA staff.

Meeting Objectives

- *Welcome MLPA Master Plan Science Advisory Team (SAT) members for the MLPA South Coast Study Region*
- *Potentially adopt list of species likely to benefit for the MLPA North Central Coast Study Region (NCCSR)*
- *Potentially adopt the Methods Used to Evaluate MPA Proposals in the North Central Coast Study Region*
- *Potentially adopt SAT operating principles and select SAT chair(s)*
- *Discuss biogeography in the SCSR*
- *Receive report from modeling work group and discuss ideas for future study regions*
- *Discuss recommendations for considering water quality for marine protected area (MPA) planning*
- *Discuss initial south coast science questions and issues*
- *Identify SAT work groups to begin addressing science questions*
- *Discuss and potentially adopt criteria for handling external data and information*
- *Thank you and farewell to the SAT members for the NCCSR*

* This facility is accessible to persons with disabilities. To request reasonable accommodations for a disability, please contact California Relay Service (at least two days prior to the meeting) at 800.735.2929 (TT) or 800.735.2922 (voice) and ask them to contact the California Marine Life Protection Act Initiative at 916.653.5656.

Meeting Agenda

Note that the SAT will break for lunch at approximately 12:30 p.m. and public comment will be taken at approximately 1:30 p.m.

1.	Welcome, introductions and review of agenda
2.	Updates
3.	MLPA North Central Coast Study Region (Attachments 1-3) <ul style="list-style-type: none"> A. Review, discuss and potentially adopt the NCCSR list of species likely to benefit from MPAs B. Review and potentially adopt the <i>Methods Used to Evaluate MPA Proposals in the North Central Coast Study Region</i>
4.	MLPA South Coast Study Region (SCSR) (Attachments 4-7) <ul style="list-style-type: none"> A. Orientation, discuss and potentially adopt SAT operating principles, and select SCSR SAT chair(s) B. Review and discuss MPA evaluation criteria and methods C. Present and discuss preliminary evaluation of SCSR MPAs D. Present and discuss biogeographic regions in the SCSR E. Present and discuss 'key and unique' habitats F. Review draft SCSR list of species likely to benefit from MPAs G. Discuss SAT review/contributions to the SCSR regional profile
5.	NCCSR SAT Modeling Work Group (Attachment 8) <ul style="list-style-type: none"> A. Overview of Equilibrium Delay Difference Model (EDOM) B. Overview of the University of California, Davis (UCD) model C. Receive update from the modeling work group and discuss any recommended changes and uses of models in SCSR D. Discuss oceanographic workshop
6.	NCCSR SAT Water Quality Work Group (Attachment 9) <ul style="list-style-type: none"> A. Introduction to water quality issues and MPA planning B. Discuss potential guidelines for future regional stakeholder groups for considering water quality with MPA planning
7.	SCSR science questions <ul style="list-style-type: none"> A. Discuss initial list of science questions for the SCSR and information gathered to date B. Identify/confirm work groups for specific south coast science questions C. Discuss and potentially adopt criteria for handling external data and information
8.	Next steps
9.	Adjourn

Attachments

1. Draft meeting summary for May 30, 2008 SAT meeting
2. Proposed amendments to draft list of species likely (*and most likely*) to benefit from MPAs in the MLPA North Central Coast Study Region
3. Methods used to evaluate MPA proposals in the north central coast
4. Draft biogeographic regions and maps
5. Draft summary of key and unique habitats
6. Draft list of species likely to benefit from MPAs in the MLPA South Coast Study Region
7. Draft table of contents for the regional profile of the MLPA South Coast Study Region
8. Draft agenda for the September 16, 2008 oceanographic workshop
9. *Recommendations for Considering Water Quality and Marine Protected Areas in the MLPA South Coast Study Region*

California Marine Life Protection Act Initiative
Master Plan Science Advisory Team for the South Coast Study Region
Administrative Meeting Agenda
(revised September 8, 2008)

Wednesday September 10, 2008
via teleconference 11:00 a.m.

Toll free phone number for audio: 800.974.2163 (passcode is 8127186#)
Presentations via GoToWebinar: <https://www1.gotomeeting.com/register/906846273>

For in-person teleconference and webinar access the public may join staff at:

Resources Building *
1416 Ninth Street, Room 1206
Sacramento, CA 95814

California Department of Fish and Game *
4665 Lampson Avenue, Suite C
Los Alamitos, CA 90720

Members of the public are invited to listen to the meeting using the toll-free phone number and passcode, or may use the MLPA offices listed above for access. This agenda may be found on the MLPA website at www.dfg.ca.gov/mlpa/meetings_sc.asp.

Meeting Objectives

- *Welcome new MLPA Master Plan Science Advisory Team (SAT) members*
- *Receive an introduction to the MLPA Initiative process and players*
- *Receive an introduction to open meeting requirements and how they apply to the SAT*
- *Review SAT charter, operating guidelines and meeting timeline*
- *Receive briefing on the science guidance adopted in the California Marine Life Protection Act Master Plan for Marine Protected Areas*
- *Receive briefing on the marine protected area (MPA) evaluation methods developed in the central coast and north central coast processes of the MLPA Initiative*

Meeting Agenda

1.	Welcome, introductions and review of agenda
2.	Marine Life Protection Act Initiative process and players
3.	Bagley-Keene Open Meeting Act [Attachment 1]
4.	SAT operations [Attachments 2-3]
5.	Science guidance in the <i>California Marine Life Protection Act Master Plan for Marine Protected Areas</i> [Attachment 4]
6.	MLPA North Central Coast MPA evaluation methods [Attachment 5]
7.	Public comment (public comment will be taken at approximately 1:00 p.m.)

* These facilities are accessible to persons with disabilities. To request reasonable accommodations for a disability, please contact California Relay Service (at least two days prior to the meeting) at 800.735.2929 (TT) or 800.735.2922 (voice) and ask them to contact the California Marine Life Protection Act Initiative at 916.654.1885.

Attachments

1. Summary of the Bagley-Keene Open Meeting Act
2. Charter of the 2008-2010 MLPA Master Plan Science Advisory Team
3. Draft operating principles for the MLPA Master Plan Science Advisory Team
4. Excerpts from guiding documents for designing marine protected areas
5. *Methods Used to Evaluate MPA Proposals in the North Central Coast Study Region (May 30, 2008 Draft)*

**California MLPA Master Plan Science Advisory Teams for the
North Central Coast Study Region and the South Coast Study Region
September 15, 2008 Joint Meeting Summary
(revised October 31, 2008)**

**Monday, September 15, 2008
9:30 a.m. - 5:30 p.m.**

**Embassy Suites Los Angeles – International Airport South
1440 East Imperial Avenue
El Segundo, CA 90245
and via simultaneous webcast on the MLPA website**

Note: Audio and video recordings of this meeting are available on the Internet at <http://www.dfg.ca.gov/mlpa/>. Please contact AGP Video Services at (805) 772-2715 to obtain DVD copies of these recordings.

North central coast SAT members attending: Eric Bjorkstedt, Mark Carr, Chris Costello, Steve Gaines, Dominic Gregorio, Ray Hilborn, John Largier, Gerry McChesney, Steven Morgan, Pete Raimondi, and Astrid Scholz.

North central coast SAT members absent: Sarah Allen, Karina Nielsen, John Ugoretz, and Carl Walters.

South coast SAT members attending: Larry Allen, Richard Ambrose, Eric Bjorkstedt, Mark Carr, Susan Chivers, Chris Costello, Paul Dayton, Steve Gaines, Dominic Gregorio, Ray Hilborn, John Largier, Steven Morgan, Steve Murray, Dan Pondella, Pete Raimondi, Dan Robinette, Astrid Scholz, Stephen Stohs, Stephen Weisberg, and Steve Wertz.

South coast SAT members absent: None.

Meeting Objectives

- *Welcome MLPA Master Plan Science Advisory Team (SAT) members for the MLPA South Coast Study Region*
- *Potentially adopt list of species likely to benefit for the MLPA North Central Coast Study Region (NCCSR)*
- *Potentially adopt the Methods Used to Evaluate MPA Proposals in the North Central Coast Study Region*
- *Potentially adopt SAT operating principles and select SAT chair(s)*
- *Discuss biogeography in the SCSR*
- *Receive report from modeling work group and discuss ideas for future study regions*
- *Discuss recommendations for considering water quality for marine protected area (MPA) planning*
- *Discuss initial south coast science questions and issues*
- *Identify SAT work groups to begin addressing science questions*
- *Discuss and potentially adopt criteria for handling external data and information*
- *Thank you and farewell to the SAT members for the NCCSR*

The meeting agenda may be found on the MLPA website at
http://www.dfg.ca.gov/mlpa/meetings_sc.asp

Executive Summary

The eleventh meeting of the North Central Coast Study Region Science Advisory Team and the second meeting of the South Coast Study Region Science Advisory Team took place at the Embassy Suites in Los Angeles on September 15, 2008. Decisions made at this meeting:

- The north central coast SAT voted to adopt a final version of the list of species likely to benefit from marine protected areas (MPAs) in the MLPA North Central Coast Study Region. The SAT also voted to adopt the *Methods Used to Evaluate MPA Proposals in the North Central Coast Study Region*.
- Members of the south coast SAT formed work groups to draft answers to preliminary science questions and elected a chair and two co-chairs.

Meeting Summary

1. Welcome, Introductions and Review of Agenda

On September 15, 2008, the eleventh meeting of the MLPA Master Plan Science Advisory Team (SAT) for the North Central Coast Study Region and the second meeting of the MLPA Master Plan Science Advisory Team for the South Coast Study Region were jointly held in Los Angeles.

2. Updates

There were no updates.

3. MLPA North Central Coast Study Region

Members of the SAT for the North Central Coast Study Region reviewed information on wintering waterbirds and voted to adopt the north central coast list of species likely to benefit with three modifications: Greater scaup will be listed as “most likely to benefit,” lesser scaup will be listed as “likely to benefit,” and common goldeneye will be removed from the list. SAT members also voted to adopt the *Methods Used to Evaluate Marine Protected Area Proposals in the MLPA North Central Coast Study Region*.

4. MLPA South Coast Study Region

A. Orientation, discuss and potentially adopt SAT operating principles, and select SCSR SAT chair(s)

SAT members discussed the operating principles presented at their first meeting, including thoughts about an alternative voting system to the “up or down” vote, such as a ten-point voting

system. Members voted to approve the SAT operating principles as they stood, and agreed that the procedure for dealing with *ex parte* communication will be discussed more at the next SAT meeting. Additionally, SAT members voiced concerns that at least one co-chair should be based in the MLPA South Coast Study Region, and that multiple co-chairs would help spread the responsibilities. At the end of the meeting, south coast SAT members nominated and approved Mark Carr as chair with Larry Allen and Steve Murray as co-chairs.

B. Review and discuss MPA evaluation criteria and methods

MLPA staff presented a summary of the MPA evaluation criteria and methods used in the north central coast, and asked south coast SAT members to consider how the methods might be used in the MLPA South Coast Study Region. SAT members discussed using a quantitative rather than qualitative metric for levels of protection, and a levels of protection work group was formed to consider these issues.

C. Present and discuss preliminary evaluation of SCSR MPAs

SAT member Mark Carr presented a preliminary evaluation of the existing MPAs in the MLPA South Coast Study Region. The presentation included size, spacing, and habitat evaluations, but not bird and mammal, modeling, or socioeconomic evaluations. Also, the south SAT has not yet established bioregions in the study region, and future evaluations will benefit from better-quality substrate and habitat maps. Additionally, the California Fish and Game Commission has asked the SAT to evaluate the existing northern Channel Islands MPAs and indicate the relationship between the islands and mainland MPAs. The evaluation presented at the SAT meeting is a first draft of the evaluation requested by the commission.

D. Present and discuss biogeographic regions in the SCSR

SAT member Pete Raimondi presented information on potential bioregions in the MLPA South Coast Study Region. Bioregions will be used during the MPA proposal evaluation process to ensure areas with unique species assemblages are adequately protected within the south coast MPAs. SAT members discussed where possible bioregions might be located, and a work group was formed to collect data on this topic.

E. Present and discuss 'key and unique' habitats

SAT member Mark Carr presented information on potential key and unique habitats in the MLPA South Coast Study Region. Other SAT members suggested additions to the list, such as oil seeps and gravel beds. A work group was formed to further discuss key and unique habitats.

F. Review draft SCSR list of species likely to benefit from MPAs

MLPA staff presented the draft list of species likely to benefit from MPAs in the south coast, as well as the criteria for including a species on the list. SAT members discussed potential additions to both the species list and the criteria for inclusion. A work group was formed to address the list of species likely to benefit and criteria for inclusion.

G. Discuss SAT review/contributions to the SCSR regional profile

MLPA staff presented an overview of the regional profile for the MLPA South Coast Study Region, and informed SAT members that their input on the document would be very welcome.

Thank You and Farewell to the North Central Coast SAT Members

California Department of Fish and Game Deputy Director Sonke Mastrup thanked the members of the MLPA Master Plan Science Advisory Team for the North Central Coast Study Region for their hard work and dedication to the MLPA process. SAT members received certificates commemorating their participation.

Public Comments

Numerous members of the public commented on a variety of issues. Comments included providing advice on where to place marine reserves, how to involve the public in the process, and information about current and historic fishing practices in the SCSR. Members of the public also provided information about which habitats they were most interested in protecting, and suggested sources of data for the SAT to consider during the process.

5. NCCSR SAT Modeling Work Group

SAT member Chris Costello presented “the model formerly known as EDOM,” and Dr. Loo Botsford presented the UC Davis model. Both models were used as parallel and supplementary evaluation methods in the north central coast, and modelers solicited input from the SAT about how to improve the models for use in the south coast. SAT members discussed incorporating larval dispersal and ocean currents specific to the south coast, adding southern California species, and evaluating ecosystem impacts and species interactions. Additionally, SAT member Astrid Scholz provided information about the development of Marxan/Marzone for the MLPA South Coast Study Region to gauge socioeconomic impacts. A new modeling work group was formed to focus on modeling issues in the south coast.

6. NCCSR Water Quality Work Group

SAT members Dominic Gregorio and John Largier presented an introduction to water quality issues in the MLPA South Coast Study Region and how they might be addressed in MPA planning. The SAT discussed potentially providing guidelines to the MLPA South Coast Regional Stakeholder Group for use while designing MPA proposals. A new water quality work group was formed to follow up on this subject.

7. SCSR Science Questions

SAT members were presented with a preliminary list of science questions for the MLPA South Coast Study Region, which was developed by MLPA Initiative staff and members of the north central coast SAT. Members reviewed the questions and formed work groups to create draft responses for approval at future SAT meetings.

8. Next Steps

Work groups formed during the meeting will work towards addressing the pertinent issues. Larry Allen and Dan Robinette from the SAT Sub-Team to the MLPA South Coast Project will attend the October 6-7, 2008 meeting of the MLPA South Coast Regional Stakeholder Group in Los Angeles. Future meetings of the SAT will likely be November 12, 2008, December 17, 2008, and January 27, 2009.

Attachments (received in advance of the meeting)

1. Draft meeting summary for May 30, 2008 SAT meeting
2. Proposed amendments to draft list of species likely (*and most likely*) to benefit from MPAs in the MLPA North Central Coast Study Region
3. Methods used to evaluate MPA proposals in the north central coast
4. Draft biogeographic regions and maps
5. Draft summary of key and unique habitats
6. Draft list of species likely to benefit from MPAs in the MLPA South Coast Study Region
7. Draft table of contents for the regional profile of the MLPA South Coast Study Region
8. Draft agenda for the September 16, 2008 oceanographic workshop
9. *Recommendations for Considering Water Quality and Marine Protected Areas in the MLPA South Coast Study Region*

Handouts (received at the meeting)

- A. PowerPoint presentation: *Review MPA Evaluation Methods for the MLPA North Central Coast Study Region* (Evan Fox, MLPA Initiative)
- B. PowerPoint presentation: *Preliminary evaluation of existing south coast MPAs* (Mark Carr, MLPA Master Plan Science Advisory Team)
- C. *Draft Analysis of Bioregions in the MLPA South Coast Study Region* (revised September 12, 2008)
- D. PowerPoint presentation: *Overview of Equilibrium Delay Difference Optimization Model* (Chris Costello, MLPA Master Plan Science Advisory Team)
- E. PowerPoint presentation: *Overview of University of California, Davis model* (Will White, University of California, Davis)
- F. PowerPoint presentation: *Overview of water quality issues and MPA planning* (Dominic Gregorio, State Water Resources Control Board)
- G. Initial south coast science questions and background information gathered to date
- H. Criteria for external data and information (with submission form)

**California MLPA Master Plan Science Advisory Team for the
MLPA South Coast Study Region
September 10, 2008 Meeting Summary
(revised October 31, 2008)**

**Wednesday, September 10, 2008
11:00 a.m. – 1:30 p.m.**

Via teleconference and web conference, with public access at:

**Resources Building
1416 Ninth Street, Room 1206
Sacramento, CA 95814**

and

**California Department of Fish and Game
4665 Lampson Avenue, Suite C
Los Alamitos, CA 90720**

Meeting Objectives

- *Welcome new MLPA Master Plan Science Advisory Team (SAT) members*
- *Receive an introduction to the MLPA Initiative process and players*
- *Receive an introduction to open meeting requirements and how they apply to the SAT*
- *Review SAT charter, operating guidelines and meeting timeline*
- *Receive briefing on the science guidance adopted in the California Marine Life Protection Act Master Plan for Marine Protected Areas*
- *Receive briefing on the marine protected area (MPA) evaluation methods developed in the central coast and north central coast processes of the MLPA Initiative*

Meeting Summary

The first meeting of the Master Plan Science Advisory Team (SAT) for the MLPA South Coast Study Region took place via teleconference and webconference on September 10, 2008.

Welcome, Introductions and Review of Agenda

The purpose of the meeting was for Marine Life Protection Act (MLPA) Initiative staff to review the administrative policies and procedures of the MLPA Initiative for members of the SAT.

Marine Life Protection Act Initiative Process and Players

MLPA staff described the MLPA Initiative process and the other groups that are part of the process and how they interact with the SAT.

Bagley-Keene Open Meeting Act

SAT members were informed of the Bagley-Keene Open Meeting Act and how it applies to the MLPA process and the SAT.

SAT Operations

MLPA staff members reviewed the charter and operating principles of the SAT, and answered questions about how the SAT operates. Staff also described a potential meeting timeline and the procedures concerning *ex parte* communications.

Science Guidance in the Master Plan for Marine Protected Areas

MLPA staff provided information about how previous MLPA science advisory teams have provided scientific guidance during the planning process, what has been adopted by the California Fish and Game Commission through the *California Marine Life Protection Act Master Plan for MPAs*, and about what types of information SAT members might be expected to comment.

MLPA North Central Coast MPA Evaluation Methods

SAT members were briefed on the MPA evaluation methods developed in the MLPA North Central Coast Study Region, and how those methods might be incorporated into the evaluation of MLPA South Coast Study Region MPA proposals.

Public Comment

Public comment focused on appreciation for the opportunity to observe the process. Some members of the public volunteered to help with community outreach.

Attachments (provided in advance)

- A. Summary of the Bagley-Keene Open Meeting Act
- B. Charter of the 2008-2010 MLPA Master Plan Science Advisory Team
- C. Draft operating principles for the MLPA Master Plan Science Advisory Team
- D. Excerpts from guiding documents for designing marine protected areas
- E. *Methods Used to Evaluate MPA Proposals in the North Central Coast Study Region (May 30, 2008 Draft)*

Attachments (provided at the meeting)

- A. PowerPoint presentation: *Summary of the MLPA Process and Players* (Lynn Takata, Environmental Specialist, California Department of Fish and Game)
- B. PowerPoint presentation: *Science Advisory Team Charter and Operations* (Jason Vasques, Associate Marine Biologist, California Department of Fish and Game)
- C. PowerPoint presentation: *Science Guidance in the Marine Life Protection Act and Master Plan for MPAs* (Jason Vasques, Associate Marine Biologist, California Department of Fish and Game)
- D. PowerPoint presentation: *MPA Evaluation Methods from the MLPA North Central Coast Process* (Evan W. Fox, Principal Planner, California MLPA Initiative)